

20000906.qrp v01\_n936.qrl.20000906

Date: Wed, 6 Sep 2000 19:03:05 EDT

From: qrp-l@Lehigh.EDU

To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>

Subject: QRP-L digest 1936

QRP-L Digest 1936

Topics covered in this issue include:

- 1) [78835] Re: Grounding question from QST  
by "George, W5YR" <w5yr@att.net>
- 2) [78836] Re: Determining Tree Height  
by "baltimoremd@baltimoremd.com" <baltimoremd@baltimoremd.com>
- 3) [78837] Re: Determining Tree Height  
by "baltimoremd@baltimoremd.com" <baltimoremd@baltimoremd.com>
- 4) [78838] Re: Determining Tree Height  
by Tim Soxman <tims@hhs.net>
- 5) [78839] RE: Determining Tree Height  
by schoon@amgt.com
- 6) [78840] Re: Determining Tree Height  
by "baltimoremd@baltimoremd.com" <baltimoremd@baltimoremd.com>
- 7) [78841] OT: Maybe.  
by "Arthur G. Silvers" <ags@ieee.org>
- 8) [78842] Re: NA Sprint  
by "James R. Duffey" <jamesd1@flash.net>
- 9) [78843] RE: Determining Tree Height  
by "Charles Mabbott" <crmabbott@mediaone.net>
- 10) [78844] (no subject)  
by Lbschafer@aol.com
- 11) [78845] Re: Determining Tree Height  
by David Hinerman <dlh1009@ritvax.isc.rit.edu>
- 12) [78846] Re: Determining Tree Height  
by "Steve Sorrell" <ap036@detroit.freenet.org>
- 13) [78847] Re: Determining Tree Height... The Cajun way...  
by hamjoel@juno.com
- 14) [78848] Value of Ten-Tec AC-5 tuner?  
by "Wilford D. Lindsey" <70511.3041@compuserve.com>
- 15) [78849] AJ4Y MIQRP Club Labor Day Sprint  
by Paul Womble <pwomble1@tampabay.rr.com>
- 16) [78850] R-7000 Vertical or Dipole  
by "mmfanche" <mmfanche@gateway.net>
- 17) [78851] Re: Value of Ten-Tec AC-5 tuner?  
by "Paul R. Valko" <prvalko@oakland.edu>
- 18) [78852] QRPp mobile  
by Joe Smith <joe@joesmith.net>
- 19) [78853] HomeMade ladder line

- by Joe Smith <joe@joesmith.net>
- 20) [78854] Norcal BLT Tuner  
by Stewart Bowers <stewbow@yahoo.com>
- 21) [78855] Re: R-7000 Vertical or Dipole  
by "Dan W. Dooley" <dandooley@pipeline.com>
- 22) [78856] RE: Grounding question from QST  
by "Hare, Ed, W1RFI" <w1rfi@arrl.org>
- 23) [78857] [re]Value of Ten-Tec AC-5 Tuner  
by "Wilford D. Lindsey" <70511.3041@compuserve.com>
- 24) [78858] FOX: I made the log!  
by "Dick Knapp" <BKeeper@micron.net>
- 25) [78859] Sierra AGC Recovery Time Mods?  
by Mike <mparkes@att.net>
- 26) [78860] Re: Value of Ten-Tec AC-5 tuner?  
by david gauding <nf0r@slacc.com>
- 27) [78861] Re: OT: RFI from LCD monitors??  
by Pete Burbank <plburbank@kih.net>
- 28) [78862] Re: R-7000 Vertical or Dipole  
by Dave Sjolin <sjolin@swbell.net>
- 29) [78863] Re: R-7000 Vertical or Dipole  
by "K7FD-N7SG" <cqdx@teleport.com>
- 30) [78864] FS: EMTECH NW40 \$89  
by ARDUJENSKI@aol.com
- 31) [78865] Random wire antenna's  
by "kc0bdw" <kc0bdw@email.msn.com>
- 32) [78866] Chas Kitchen Regen etc  
by Pete Burbank <plburbank@kih.net>
- 33) [78867] Re: Chas Kitchen Regen etc  
by "George Heron N2APB" <n2apb@erols.com>
- 34) [78868] ARCI contest reminder  
by Randy Foltz <rfoltz@turbonet.com>
- 35) [78869] Re: R-7000 Vertical or Dipole  
by "Mike Yetsko" <myetsko@insydesw.com>
- 36) [78870] my spurs and 20m  
by neil tanner <ntan@crosslink.net>
- 37) [78871] RE: listen for me  
by DaveLeDuc@aol.com
- 38) [78872] FS K2  
by k8ff@juno.com
- 39) [78873] QRP Portable on the NC Outer Banks, de N4UY  
by "John L. \"Jake\" Carter" <jakecart@ix.netcom.com>
- 40) [78874] Re: Chas Kitchen Regen etc  
by Pete Burbank <plburbank@kih.net>
- 41) [78875] Re: AT-11 measured loss  
by "Lau, Zack, W1VT" <zlau@arrl.org>
- 42) [78876] Re: Chas Kitchen Regen etc  
by "Bruce Kizerian" <kizerian@ced.utah.edu>
- 43) [78877] Re: AT-11 measured lo

- by n2cx@voicenet.com
- 44) [78878] Free QST's 1990-96 in Boston, MA area  
by Dan Halbert <halbert@bbn.com>
- 45) [78879] Technical - Rig Protection Tricks  
by K5KW@aol.com
- 46) [78880] RE: Technical - Rig Protection Tricks  
by "Kevin Muenzler, WB5RUE" <wb5rue@arrl.net>
- 47) [78881] Technical - Correction  
by K5KW@aol.com
- 48) [78882] Re: R-7000 Vertical or Dipole  
by Bill Coleman AA4LR <aa4lr@radio.org>
- 49) [78883] Re: R-7000 Vertical or Dipole  
by Monte Stark <ku7y@dri.edu>
- 50) [78884] Determining tree height  
by "Gary Lee Phillips" <ka9nzi@arrl.net>
- 51) [78885] RE: R-7000 Vertical or Dipole  
by "Andreas Junge" <andreas@OpenGrid.Com>
- 52) [78886] Re: R-7000 Vertical or Dipole  
by "Bob Tellefsen" <n6wg@earthlink.net>
- 53) [78887] Re: new DC mixer?  
by "laura halliday" <marsgal42@hotmail.com>
- 54) [78888] K0EVZ QSLs in the US Post  
by "Wilford D. Lindsey" <70511.3041@compuserve.com>
- 55) [78889] Re: Grounding question from QST  
by Marty <N5NW@midsouth.rr.com>
- 56) [78890] Websites for simple equipment (homebrew)  
by "Hans Kaper" <hanskap@kaper-1.tmfweb.nl>
- 57) [78891] Appalachian Trail Operation  
by Ken Newman <N2CQ@citnet.com>
- 58) [78892] Re: R-7000 Vertical or Dipole  
by bob evinger <wd9eka@arrl.net>
- 59) [78893] OT: Equipment Covers ?  
by Michael Melland <badger@vbe.com>
- 60) [78894] RE: Websites for simple equipment (homebrew)  
by "Hare, Ed, W1RFI" <w1rfi@arrl.org>
- 61) [78895] RE: Equipment Covers ?  
by "Hare, Ed, W1RFI" <w1rfi@arrl.org>
- 62) [78896] RE: Equipment Covers ?  
by "Kanalz, Karl" <Karl.Kanalz@allegiancetelecom.com>
- 63) [78897] Stupid question...  
by Jeff Dairiki <dairiki@dairiki.org>
- 64) [78898] Re: Stupid question...  
by "Mike Yetsko" <myetsko@insydesw.com>
- 65) [78899] RE: Stupid question...  
by "Kevin Muenzler, WB5RUE" <wb5rue@arrl.net>
- 66) [78900] RE: Stupid question...  
by "Kevin Muenzler, WB5RUE" <wb5rue@arrl.net>
- 67) [78901] Re: Stupid question...

by "Mike Yetsko" <myetsko@insydesw.com>  
68) [78902] Re: Stupid question...  
by Jeff Dairiki <dairiki@dairiki.org>  
69) [78903] Re: Stupid question...  
by "Mike Yetsko" <myetsko@insydesw.com>  
70) [78904] FOX: Final Log for N1FN, Hunt #19, 9/3/00  
by "Marshall Emm" <mgemm@mtechnologies.com>  
71) [78905] Re: Stupid question...  
by "Larry Acklin" <larrya@compu-fixinc.com>  
72) [78906] CQ Mike Brice  
by M Goins <mgoins@usa.net>  
73) [78907] Re: Stupid question...  
by "Randy Randall" <RANDALLR@Healthall.com>  
74) [78908] n4uau scf '95 HB?  
by n2go@arrl.net  
75) [78909] Re: HomeMade ladder line  
by Bill Coleman AA4LR <aa4lr@radio.org>  
76) [78910] Re: Stupid question...  
by "Mike Yetsko" <myetsko@insydesw.com>  
77) [78911] Re: AT-11 measured loss  
by Bob Kellogg <ae4ic@nr.infi.net>  
78) [78912] Re: R-7000 Vertical or Dipole  
by Bill Coleman AA4LR <aa4lr@radio.org>  
79) [78913] Point Roberts Expedition Bulletin!!!  
by "Scott Robbins" <srobbins\_qrp@hotmail.com>  
80) [78914] Re: NA Sprint  
by Bill Coleman AA4LR <aa4lr@radio.org>  
81) [78915] Re: Pocket ATU  
by "Ralf K. Buschner" <r\_buschner@knuut.de>  
82) [78916] RE: Stupid question...  
by "Kevin Muenzler, WB5RUE" <wb5rue@arrl.net>  
83) [78917] Re: AT-11 measured loss  
by Bob Kellogg <ae4ic@nr.infi.net>  
84) [78918] Re: R-7000 Vertical or Dipole  
by Dave Sjolín <sjolin@swbell.net>  
85) [78919] FOX: Final Log AJ4Y  
by Paul Womble <pwomble1@tampabay.rr.com>  
86) [78920] New Speaker  
by "Mike Yetsko" <myetsko@insydesw.com>  
87) [78921] Re: AT-11 measured loss  
by "Karl F. Larsen" <k5di@zianet.com>  
88) [78922] PSK31  
by "Karl F. Larsen" <k5di@zianet.com>  
89) [78923] Nu Morse Lite  
by Howard Friedman <haf47@juno.com>  
90) [78924] Re: Determining Tree Height  
by "Ted Williams" <ted.williams@btinternet.com>  
91) [78925] Re: [re]Value of Ten-Tec AC-5 Tuner

by "Winston F. Jones" <winjones@ix.netcom.com>  
92) [78926] Re: Stupid question...  
by Rick McKee <kc8aon@juno.com>

-----  
Date: Tue, 05 Sep 2000 18:10:50 -0500  
From: "George, W5YR" <w5yr@att.net>  
To: N5NW@midsouth.rr.com  
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>  
Subject: [78835] Re: Grounding question from QST  
Message-ID: <39B57D7A.3BE8F72D@att.net>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

Marty, this is not at all surprising. This is not the first time that the "Doctor" has given ambiguous/conflicting/wrong information. I have demoted that particular column to the level of 73 magazine.

72/73, George W5YR - the Yellow Rose of Texas  
Fairview, TX 30 mi NE Dallas in Collin county QRP-L 1373  
Amateur Radio W5YR, in the 55th year and it just keeps getting better!  
R/C since 1964 - AMA 98452 RVing since 1972 Kachina #91900556  
(12/99)

Marty wrote:

>  
> This month's QST has a question on grounding the station, or two actually, in  
> the feature entitled "the Doctor is IN".

<snip>

> I'm writing to QRP-L in hopes of a quick response, and to the columnist  
> (doctor@arrl.org) for perhaps a clarification in QST, but that might take a  
> couple of months to be forthcoming. As this appears to be a matter that a  
> good portion of us on QRP-L deal with, perhaps public answers and discussion  
> on the list is appropriate.

>

> --

> Marty, N5NW

>

> Lakeland (Memphis), Tennessee

<http://marty.w.tripod.com/>

> N5NW@midsouth.rr.com

--



../../../../../../../../../../../../../../../../../../../../../../../../../../../../  
baltimoremd@baltimoremd.com Thom LaCosta K3HRN Webmaster

http://www.baltimoremd.com/ Baltimore's Home Page  
http://www.baltimorehon.com Home of the Baltimore Lexicon  
http://www.min.net/~thom/ QRP and Drake Mail List Pages

-----  
Date: Tue, 05 Sep 2000 19:42:05 -0400  
From: Tim Soxman <tims@hhs.net>  
To: baltimoremd@baltimoremd.com  
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>  
Subject: [78838] Re: Determining Tree Height  
Message-ID: <39B584CD.2EB3B036@hhs.net>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

I'll have you know that's spelled with two d's.

-----  
Date: Tue, 5 Sep 2000 16:24:32 -0700  
From: schoon@amgt.com  
To: <qrp-1@Lehigh.EDU>, <baltimoremd@baltimoremd.com>  
Subject: [78839] RE: Determining Tree Height  
Message-ID: <c=US%a=\_%p=American\_Geotech%l=AG-CALCITE-BD-000905232432Z-3086@mail.amgt.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"  
Content-Transfer-Encoding: 7bit

My favorite so far is just to cut the tree down and measure it!! The best solution IMHO, is to mark my height on the trunk, walk away from the tree until my thumb sticking up is the same height as the mark and then count how many thumbs it takes to get to the top of the tree. Close enough for me!! Thanks for all the ideas!!

72

.mark

>-----  
>From: baltimoremd@baltimoremd.com[SMTP:baltimoremd@baltimoremd.com]  
>Sent: Tuesday, September 05, 2000 4:27 PM





Date: Tue, 05 Sep 2000 16:47:14 -0700  
From: "Arthur G. Silvers" <ags@ieee.org>  
To: qrp-l <qrp-l@Lehigh.EDU>  
Subject: [78841] OT: Maybe.  
Message-ID: <39B58602.7A55249A@ieee.org>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

My neighbor has an ICOM R9000 for sale. Anyone have any idea what it may be worth today?

Also, posted a few more links to FOBB 2000 pics from my website at

<http://www.qsl.net/w6ags>

72  
Arth W6AGS

-----  
Date: Tue, 05 Sep 2000 18:04:54 -0600  
From: "James R. Duffey" <jamesd1@flash.net>  
To: qrp-l <qrp-l@lehigh.edu>  
Subject: [78842] Re: NA Sprint  
Message-ID: <B5DAE646.2612%jamesd1@flash.net>  
Mime-version: 1.0  
Content-type: text/plain; charset="US-ASCII"  
Content-transfer-encoding: 7bit

All - I agree with Ron that the NA Sprint is the hardest contest there is. I have operated a couple and feel completely exhausted and humiliated after they are over. My best score was 40 Qs, and that is about 0.1 of the maximum I saw posted!!

I spent a lot of time sending QRS?, which most stations did, but most stations would go to a speed that was much lower than I was capable of copying so that was humbling as well!

Despite that, all the participants are eager for contacts and eager to work all participants. If you want to work Sweepstakes, this is a good tune up. Sweepstakes will be much less work.

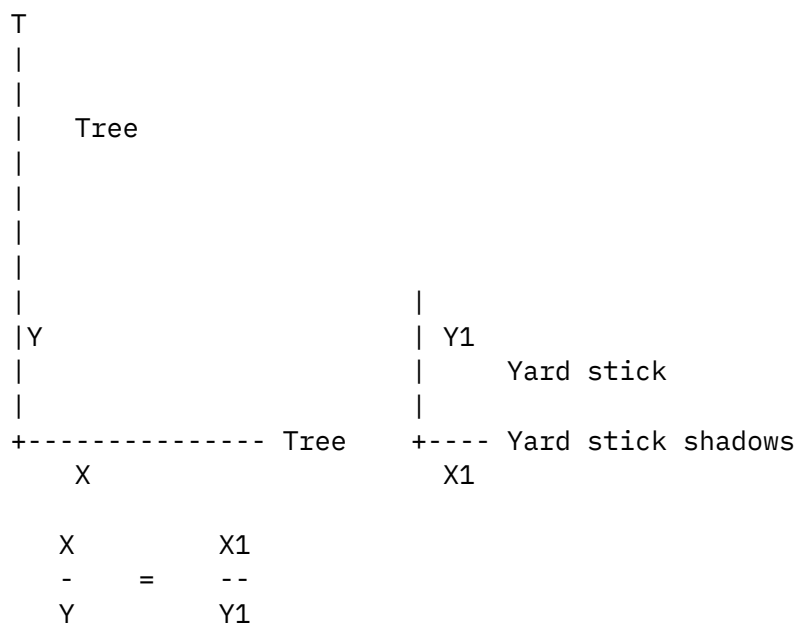
None the less, if you want a taste of real contesting, which requires some real thought rather than just sitting and calling CQ, the NA Sprint is for you.

--

James R. Duffey KK6MC/5  
30 Casa Loma Road  
Cedar Crest, NM 87008

-----  
Date: Tue, 5 Sep 2000 20:20:01 -0400  
From: "Charles Mabbott" <crmabbott@mediaone.net>  
To: <DYARNES@aol.com>, <qrp-1@Lehigh.EDU>  
Subject: [78843] RE: Determining Tree Height  
Message-ID: <000101c01798\$32fec880\$0201a8c0@mw.mediaone.net>  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

As I remember;



Then

$$Y = (X * Y1) / X1$$

I am sure the mathematicians will love this but it worked in Scouts. Similar triangles, just determine the length of the shadows and it becomes a ratio. No angles to be computed. Keep all units the same such as feet or meters.

73 ES oo

Chuck AA8VS  
FP-113

-----Original Message-----

From: owner-qrp-1@Lehigh.EDU [mailto:owner-qrp-1@Lehigh.EDU] On Behalf Of  
DYARNES@aol.com  
Sent: Tuesday, September 05, 2000 5:28 PM  
To: Low Power Amateur Radio Discussion  
Subject: Re: Determining Tree Height

-----  
Date: Tue, 5 Sep 2000 21:02:03 EDT  
From: Lbschafer@aol.com  
To: qrp-1@lehigh.edu  
Subject: [78844] (no subject)  
Message-ID: <86.4c145a.26e6f18b@aol.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset="US-ASCII"  
Content-Transfer-Encoding: 7bit

New kid on the block looking for Heathkit VFO, HG10, A or B models. Please  
give condition and price, thanks...Lee K7QD

-----  
Date: Tue, 05 Sep 2000 09:08:21 -0400  
From: David Hinerman <dlh1009@ritvax.isc.rit.edu>  
To: qrp-1@lehigh.edu  
Subject: [78845] Re: Determining Tree Height  
Message-ID: <3.0.6.32.20000905090821.007a0780@vmsspop.rit.edu>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"

At 11:18 AM 9/5/00 -0700, you wrote:

>Good Morning!!

>

> After spending the holiday weekend measuring the location of all the  
> trees suitable for antennas, I was wondering how tall some of them were.  
> Was wondering if it's possible to figure out the height of a tree by the  
> length of the shadow and the time of day?? Not even sure where to start  
> looking for information on this crazy idea, but thought I would start  
> here. Any thoughts??

Yup. try here:

<http://freeweb.pdq.net/headstrong/tree.htm>

It describes how to estimate the height of an object using a yardstick or meter stick. And it doesn't even involve climbing!

Dave

-----  
Date: Wed, 6 Sep 2000 01:17:09 +0100  
From: "Steve Sorrell" <ap036@detroit.freenet.org>  
To: <crmabbott@mediaone.net>, "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>  
Subject: [78846] Re: Determining Tree Height  
Message-ID: <000901c01797\$cd185b80\$8efa070a@default>  
MIME-Version: 1.0  
Content-Type: text/plain;  
        charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

Into the filters for this thread!  
de Steve, W8SFF

-----  
Date: Tue, 5 Sep 2000 21:50:39 -0400  
From: hamjoel@juno.com  
To: qrp-1@lehigh.edu  
Subject: [78847] Re: Determining Tree Height... The Cajun way...  
Message-ID: <20000905.215041.-213723.0.hamjoel@juno.com>  
MIME-Version: 1.0  
Content-Type: text/plain  
Content-Transfer-Encoding: 7bit

Sometimes u an't got no whare to go to take a measurement of a high tree and climbing the tree is outta the question sooo whatch do man....

U took ur rod and reel or sling shot or bow and arrow or spud gun and u shot a line where u want to put ur rope... let the line come down to the ground.... lay the rod and reel on the ground and mark the line with sumthin what won't come off or tie a piece of thread around it.....

cut off the weight u chunked over the tree and reel in ur line and measure it and divide by two....

works fine every time....

kella joel  
displaced cajun  
in maine.

-----  
YOU'RE PAYING TOO MUCH FOR THE INTERNET!  
Juno now offers FREE Internet Access!  
Try it today - there's no risk! For your FREE software, visit:  
<http://dl.www.juno.com/get/tagj>.  
-----

Date: Tue, 5 Sep 2000 22:03:26 -0400  
From: "Wilford D. Lindsey" <70511.3041@compuserve.com>  
To: QRP-L Discussion Group <QRP-L@Lehigh.edu>  
Cc: "W.D.(Doc)Lindsey/K0EVZ" <70511.3041@compuserve.com>  
Subject: [78848] Value of Ten-Tec AC-5 tuner?  
Message-ID: <200009052203\_MC2-B246-B5AD@compuserve.com>  
MIME-Version: 1.0  
Content-Transfer-Encoding: quoted-printable  
Content-Type: text/plain;  
charset=ISO-8859-1  
Content-Disposition: inline

Gang:

Can someone help me with a price? What price would be right for a Ten-Tec  
AC-5 tuner? This is the small one which came out years ago, and which  
matched such rigs as the PM series. Can anyone help? Thanks in advance.=

72/73,  
--W.D. (Doc) Lindsey  
DSBF  
PO Box 6028  
Bismarck, ND 58506  
(Shipping =3D DSBF, 2020 Lovett Ave, Bismarck, ND, 58504)  
E-Mail =3D K0EVZ@arrl.net  
-----

Date: Tue, 05 Sep 2000 22:20:54 -0400  
From: Paul Womble <pwomble1@tampabay.rr.com>  
To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>  
Subject: [78849] AJ4Y MIQRP Club Labor Day Sprint  
Message-ID: <39B5AA06.AB774108@tampabay.rr.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

2000 MI-QRP CLUB CONTEST

FL Call used: AJ4Y Location:

5W Category: Single Op All Band Mode: CW Power:

Callsign of Operator: AJ4Y

Exchanged Information: AJ4Y RST FL 5W

Hours of Operation: 4

| band  | QSOs | points | mults |
|-------|------|--------|-------|
| 160   | 0    | 0      | 0     |
| 80    | 0    | 0      | 0     |
| 40    | 4    | 8      | 3     |
| 20    | 80   | 210    | 32    |
| 15    | 9    | 27     | 8     |
| 10    | 0    | 0      | 0     |
| ----- |      |        |       |
| TOTAL | 93   | 245    | 43    |

$245 \times 43 = 10,535 \times 1.5 = 15,803$

Club or Team Name: Swamp RATZ

Comments:

First MI Labor Day Sprint for me. Will be back! 15 and 20 were in good shape the first hour...tried to move to 10 with a couple of stations but did not make a qso on that band. 40 is difficult at best from FL in the summer...80 and 160 forget it!

Stuff:

Elecraft K2 # 568 @ 5 watts  
Force12 C-3 tribander up 75'  
40m inverted-v up 60'

-----  
Date: Tue, 5 Sep 2000 22:26:10 -0400  
From: "mmfanche" <mmfanche@gateway.net>  
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>  
Subject: [78850] R-7000 Vertical or Dipole  
Message-ID: <004001c017a9\$d3c9bf20\$accf193f@GEARemote>  
MIME-Version: 1.0  
Content-Type: text/plain;  
        charset="windows-1255"  
Content-Transfer-Encoding: 7bit

Here's hoping for some advice . . .

I operate QRP exclusively and on 40m only using my NorCal 40A. I have a dipole in the trees at about 30'. Its fed with 450 ohm ladder line to a tuner. Tunes to a 1:1 match.

I also have an R7000 vertical in my garage. I can put it up about 20' (using a mast against my one story house). The question I have is: if I install my R7000, will I be getting better performance than I already have with the dipole up 30'?

In looking through my Pacificon QRP Forum Proceedings '98, I can across this advice from Roy Lewellen:

"Horizontal vs Vertical

Over most typical ground, a dipole up more than a quarter wavelength will produce more gain than a vertical, even at low elevation angles. Vertically polarized energy striking the ground at low angles is lost, greatly reducing the low angle radiation from any vertically polarized antenna. This problem can't be corrected by improving the radial system. If you have salt water extending from about 100 to several hundred feet from your antenna, a vertical will produce very good low angle radiation; otherwise it won't. For high-angle radiation (for communicating up to a few hundred miles), a horizontal antenna will greatly outperform a vertical, with optimum height being about 1/4 wavelength. Verticals do, of course, radiate equally in all directions, which is an advantage from some locations (but not from here). I never use vertical antennas on Field Day, although I might if I operated on 80 meters, and almost certainly would if I operated on 160."

Well, from what Roy says, it sounds dismal for the R-7000. Any advice would be appreciated!

Thanks!

Mark Fancher, W09G  
mmfanche@gateway.net

-----  
Date: Tue, 5 Sep 2000 22:26:49 -0400 (EDT)  
From: "Paul R. Valko" <prvalko@oakland.edu>  
To: "Wilford D. Lindsey" <70511.3041@compuserve.com>  
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>  
Subject: [78851] Re: Value of Ten-Tec AC-5 tuner?  
Message-ID: <Pine.OSF.4.21.0009052223360.30663-1000000@saturn4.acs.oakland.edu>  
MIME-Version: 1.0  
Content-Type: TEXT/PLAIN; charset=US-ASCII

IMHO, a fair price for the AC-5 tuner would be somewhere AROUND \$50.  
+/- up to 50% depending on condition.

73! =paul= W8KC  
Collector of Ten\*Tecs and other fine plastics.  
Visit the Virtual Ten\*Tec Museum at:  
<<http://www.acs.oakland.edu/~prvalko>>

On Tue, 5 Sep 2000, Wilford D. Lindsey wrote:

> Gang:  
>  
> Can someone help me with a price? What price would be right for a Ten-Tec  
> AC-5 tuner? This is the small one which came out years ago, and which  
> matched such rigs as the PM series. Can anyone help? Thanks in advance.  
>  
> 72/73,  
> --W.D. (Doc) Lindsey  
> DSBF  
> PO Box 6028  
> Bismarck, ND 58506  
> (Shipping = DSBF, 2020 Lovett Ave, Bismarck, ND, 58504)  
> E-Mail = K0EVZ@arrl.net  
>

-----  
Date: Tue, 5 Sep 2000 21:47:35 -0500 (CDT)



From: Joe Smith <joe@joesmith.net>  
To: qrp-1@lehigh.edu  
Subject: [78852] QRPp mobile  
Message-ID: <Pine.LNX.4.10.10009052144420.29531-100000@nikola.joesmith.net>  
MIME-Version: 1.0  
Content-Type: TEXT/PLAIN; charset=US-ASCII

Good job! Those roof mounted hamsticks work great! This year I will be mounting a base coil on my 40 meter hamstick, with a clip lead to ground to get a better match and lower SWR. I'll be trying the less than 1 watt mode as well in one of the fox hunts. I'm sure I'll wait for a fox who is 10 over 9, but hey, it'll still be fun!

72,  
W0JOE

\*\*\*\*\*

"To invent, you need a good  
imagination and a pile of junk."  
- Thomas Alva Edison

-----  
Date: Tue, 5 Sep 2000 21:49:22 -0500 (CDT)  
From: Joe Smith <joe@joesmith.net>  
To: qrp-1@lehigh.edu  
Subject: [78853] HomeMade ladder line  
Message-ID: <Pine.LNX.4.10.10009052148210.29531-100000@nikola.joesmith.net>  
MIME-Version: 1.0  
Content-Type: TEXT/PLAIN; charset=US-ASCII

I am going to build my own ladder line. 600 ohm is my preference.  
Anyone have any good references and/or ideas?

72,  
W0JOE

-----  
Date: Tue, 5 Sep 2000 19:51:24 -0700 (PDT)  
From: Stewart Bowers <stewbow@yahoo.com>  
To: QRP <qrp-1@Lehigh.EDU>  
Subject: [78854] Norcal BLT Tuner

Message-ID: <20000906025124.2343.qmail@web2302.mail.yahoo.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii

I just finished the Norcal BLT kit and have a question. When using it to tune an unbalanced antenna, I note that the LED indicates max brightness for minimum SWR, contrary to the instructions. Also, when switching from tune to operate, I note from my analyzer the I must re-adjust to optimize. Has anybody had a similar experience with the BLT? Stew Bowers WB6FBB

-----  
Do You Yahoo!?  
Yahoo! Mail - Free email you can access from anywhere!  
<http://mail.yahoo.com/>  
-----

Date: Tue, 5 Sep 2000 21:53:26 -0500  
From: "Dan W. Dooley" <dandooley@pipeline.com>  
To: <mmfanche@gateway.net>, "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>  
Subject: [78855] Re: R-7000 Vertical or Dipole  
Message-ID: <00c201c017ad\$a4583880\$0400a8c0@bergenbrunswick.com>  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="windows-1255"  
Content-Transfer-Encoding: 7bit

Mark, if it's not too much "trouble", if I were in your position, I'd certainly put the vertical up and see what happens. You might be pleasantly surprised.

If you can put it up the 20 foot (I'm assuming you mean at the base) and try some elevated radials to minimize ground losses you referred to, you will probably end up with a better performer than you're giving it credit for. It will give good low angle radiation.

Even if it does not consistently beat out the dipole (no claim on my part that it will), there will be times when the ability to switch between the two antennas will be worth the effort.

I'm very happy with the performance of my Butternut vertical elevated with its elevated (and isolated radials).

Dan W. Dooley WB5TKA Bedford, Texas EM12ku

e-mail to: dandooley@pipeline.com  
SOC #198, FPQRP # -104  
May Goddes love blest ye alle  
"Ancient Pistol, I do partly understand your meaning."

----- Original Message -----

From: "mmfanche" <mmfanche@gateway.net>  
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>  
Sent: Tuesday, September 05, 2000 9:26 PM  
Subject: R-7000 Vertical or Dipole

> Here's hoping for some advice . . .  
>  
> I operate QRP exclusively and on 40m only using my NorCal 40A. I have a  
> dipole in the trees at about 30'. Its fed with 450 ohm ladder line to a  
> tuner. Tunes to a 1:1 match.  
>  
> I also have an R7000 vertical in my garage. I can put it up about 20'  
> (using a mast against my one story house). The question I have is: if I  
> install my R7000, will I be getting better performance than I already have  
> with the dipole up 30'?  
>  
> In looking through my Pacificon QRP Forum Proceedings '98, I can across  
this  
> advice from Roy Lewellen:  
>  
> "Horizontal vs Vertical  
>  
> Over most typical ground, a dipole up more than a quarter wavelength will  
> produce more gain than a vertical, even at low elevation angles.  
Vertically  
> polarized energy striking the ground at low angles is lost, greatly  
reducing  
> the low angle radiation from any vertically polarized antenna. This  
problem  
> can't be corrected by improving the radial system. If you have salt water  
> extending from about 100 to several hundred feet from your antenna, a  
> vertical will produce very good low angle radiation; otherwise it won't.  
> For high-angle radiation (for communicating up to a few hundred miles), a  
> horizontal antenna will greatly outperform a vertical, with optimum height  
> being about 1/4 wavelength. Verticals do, of course, radiate equally in  
all  
> directions, which is an advantage from some locations (but not from here).  
> I never use vertical antennas on Field Day, although I might if I operated  
> on 80 meters, and almost certainly would if I operated on 160."  
>

> Well, from what Roy says, it sounds dismal for the R-7000. Any advice  
would  
> be appreciated!  
>  
> Thanks!  
>  
> Mark Fancher, W09G  
> mmfanche@gateway.net  
>

-----  
Date: Tue, 5 Sep 2000 22:53:41 -0400  
From: "Hare, Ed, W1RFI" <w1rfi@arrl.org>  
To: "'N5NW@midsouth.rr.com'" <N5NW@midsouth.rr.com>, Low Power Amateur Radio  
Discussion <grp-l@Lehigh.EDU>  
Subject: [78856] RE: Grounding question from QST  
Message-ID: <125490A005E3D3118C9C00805FC743CCB2C47A@mail.arrl.org>  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="iso-8859-1"

Actually, the articles are not as contradictory as might appear. One is talking about transmitter grounding, which could put very high RF currents onto the ground system. If this ground were for an end-fed antenna, those currents could be very high indeed, possibly causing RF burns to people who touched the ground in other areas of the building.

In the case of computer RFI, the currents involved, by design, are very low and not apt to cause major problems if shunted onto the ground system.

Mike Tracy, KC1SX/QRP, is our grounding guru. He is a regular QRP-L reader, so he will give a mo' better answer when he gets back from a business trip later in the week.

73,  
Ed Hare, W1RFI  
ARRL Laboratory Supervisor  
225 Main St  
Newington, CT 06111  
Tel: 860-594-0318  
FAX: 860-594-0259  
Internet: w1rfi@arrl.org  
ARRL Web: <http://www.arrl.org>  
ARRL Technical Information Service: <http://www.arrl.org/tis/>

> -----Original Message-----

> From: Marty [mailto:N5NW@midsouth.rr.com]

> Sent: Tuesday, September 05, 2000 6:30 PM

> To: Low Power Amateur Radio Discussion

> Subject: Grounding question from QST

>

>

> This month's QST has a question on grounding the station, or

> two actually, in

> the feature entitled "the Doctor is IN".

>

> In instance one, a user is attempting to eliminate computer

> monitor RFI. The

> questioner is told, "A good ground point for the computer is

> teh little screw

> on teh cover plate of your wall power socket. Test this by

> shutting off the

> circuit breater to that plug and use an ohmmeter between the

> screw and the

> ground wire hole. At the very least, make sure your PC is

> attached to your

> station ground."

>

> In another question, the questioner who lives in a second

> floor apartment is

> given similar advice, and refers to an article reprint

> "Antennas and Grounds

> for Apartments" on the ARRL TIS web page.

>

> In searching for the suggested article, I found another

> article reprint,

> entitled "Different Grounds for Different Shacks" from April

> 1996 QST. In it,

> the question is asked "the third wire of my electrical

> outlets is grounded at

> the circuit breaker box. Can't I use that for my RF ground?"

> to which the

> answer is given "No. As noted above the [National Electrical

> Code] requires

> that installations prevent any objectionable currents from

> flowing over these

> electrical-safety grounding conductors. ... Any RF signal

> imposed on teh

> safety ground system causes energy radiation throughout the

> building; poses a

> health and safety hazard, and may damage appliances connected

> to the building

> wiring system."  
>  
> This information appears to be contradictory.  
>  
> I was considering tying all my station equipment together  
> (including the  
> tuner, which does have a "random" counterpoise, not tuned)  
> with braid and  
> tying it to the screw on the wall plate. The purpose is to  
> bleed off the RF  
> from the shack (I'm in an apartment). Is the above  
> information contradictory?  
> Am I fixing to tear something up?  
>  
> I'm writing to QRP-L in hopes of a quick response, and to the  
> columnist  
> (doctor@arrl.org) for perhaps a clarification in QST, but  
> that might take a  
> couple of months to be forthcoming. As this appears to be a  
> matter that a  
> good portion of us on QRP-L deal with, perhaps public answers  
> and discussion  
> on the list is appropriate.  
>  
>  
> --  
> Marty, N5NW  
> -----  
> -----  
> Lakeland (Memphis), Tennessee  
> <http://marty.w.tripod.com/>  
> N5NW@midsouth.rr.com  
>

-----  
Date: Tue, 5 Sep 2000 23:01:06 -0400  
From: "Wilford D. Lindsey" <70511.3041@compuserve.com>  
To: QRP-L Discussion Group <QRP-L@Lehigh.edu>  
Cc: "W.D.(Doc)Lindsey/K0EVZ" <70511.3041@compuserve.com>  
Subject: [78857] [re]Value of Ten-Tec AC-5 Tuner  
Message-ID: <200009052301\_MC2-B24C-1BBC@compuserve.com>  
MIME-Version: 1.0  
Content-Transfer-Encoding: quoted-printable  
Content-Type: text/plain;  
charset=ISO-8859-1  
Content-Disposition: inline

Gang:

Several wrote back almost immediately with the estimated value. Thanks one and all. Wow, what a great list :-).

72/73,

--W.D. (Doc) Lindsey

DSBF

PO Box 6028

Bismarck, ND 58506

(Shipping =3D DSBF, 2020 Lovett Ave, Bismarck, ND, 58504)

E-Mail =3D K0EVZ@arrl.net

-----  
Date: Tue, 5 Sep 2000 21:13:47 -0600

From: "Dick Knapp" <BKeeper@micron.net>

To: <qrp-1@Lehigh.EDU>

Subject: [78858] FOX: I made the log!

Message-ID: <000001c017b0\$85073960\$43ab13d1@dickknapp>

MIME-Version: 1.0

Content-Type: text/plain;

charset="iso-8859-1"

Content-Transfer-Encoding: 8bit

I've been a lurker on qrp-1 for about 2 years, though I have learned a lot. I built a 40m novice SST, then later selected, built and operated a K2 while lurking on this list.

But I gotta tell you fellow qrp-ers I bagged my first fox this weekend! My wife just doesn't get it, nor friends nor co-workers. I was scanning while doing computer work Sunday when I heard CQ FOX. Could it be? I listened, fooled around with the split function on my K2, heard Marshall, and someone working him abt 200 Hz off of Marshall's freq. I called, Marshall came back, and we had a sort of exchange, cuz I didn't know exact exchange. Then I lost him to QSB before he could confirm. I see I made the log! Well, I'm jacked! I can do this!

Thanks, Marshall, and other organizers. Guess I'd better get a qrp-1 number. OK, now how can I get out of my Thursday night classes? This is fun!

Dick Knapp KC7TUP with K2 to dipole

-----

Date: Tue, 5 Sep 2000 20:15:11 -0700  
From: Mike <mparkes@att.net>  
To: qrp-l@Lehigh.EDU  
Subject: [78859] Sierra AGC Recovery Time Mods?  
Message-ID: <v04003a00b5db66961326@[12.73.161.109]>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"

Wondered if anyone on the list has played around with the modifying the AGC on the Sierra to get a faster recovery time? I don't have my manual in front of me but I remember a capacitor in the AGC that could probably be changed out? ANY thoughts are appreciated...  
Mike AB7RU

-----  
Date: Tue, 05 Sep 2000 21:58:40 -0500  
From: david gauding <nf0r@slacc.com>  
To: qrp-l@lehigh.edu  
Subject: [78860] Re: Value of Ten-Tec AC-5 tuner?  
Message-ID: <4.3.2.7.0.20000905212353.00c38820@bbs.galilei.com>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"; format=flowed

Doc,

I've bought/sold/traded a few AC-5's over the years. In my experience, \$15-25 is pretty much the going rate depending on condition. Ditto for the AC-4 bridge from the same era, i.e. PM-series.

There are two versions of the AC-5, depending on the knob. The neat one has a larger plastic example with chrome insert and a tiny pointer moulded into the black body, which usually breaks-off. It matches the knob sets on the Argo 505 and Argo 509, just a much larger diameter. Might match the PM and Triton series too but I don't have anything here to compare.

The other version of the AC-5 has a generic black knob with six facets, white line indicator and a short collar, no chrome insert. Hard to describe here but it's a common knob on a lot of older ham and test gear. I'm not sure which knob type came first.

At a hamfest several years ago, I bought a AC-5 and AC-4 in a two-section Ten-Tec box with packing material intact. It's the only example I've seen in this combination and could well be a factory item. Has to be 25 years old plus, at least.



BTW, I'm looking for a 206A Xtal Calibrator for the Argonaut 515, if you come across a nice example. And, I have a 214 Speech Processor for trade for Ten-Tec stuff. Don't know too many SSB ops! <g>

Good luck!

de Dave, NF0R        nf0r@slacc.com

-----  
Date: Tue, 05 Sep 2000 23:23:11 -0400  
From: Pete Burbank <plburbank@kih.net>  
To: <qrp-l@Lehigh.EDU>  
Subject: [78861] Re: OT: RFI from LCD monitors??  
Message-ID: <3.0.32.20000905232306.0077a1f8@kih.net>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"

At 09:31 AM 9/5/00 +0000, you wrote:

>Hi,

>

>I have rfi from my monitor, both wide band hash on some bands and on  
>specific frequencies.

Goran ,

My solution was quite accidental. Upon using 70 ohm hardline (bumped from the local cable guys) the problem cleared up. Evidently the shilding is very tight and my transmitter doesn't seem to mind the 70 ohm load.

The stuff is virtually lossless at HF and easy to fit PL-259s to.

I use a tuner at the antenna (vertical ) base so no problem there.

73 Pete NV4V

-----

Date: Tue, 05 Sep 2000 22:13:23 -0500  
From: Dave Sjolín <sjolin@swbell.net>  
To: dandoooley@pipeline.com  
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>  
Subject: [78862] Re: R-7000 Vertical or Dipole  
Message-ID: <39B5B653.3042A1C@swbell.net>  
MIME-version: 1.0  
Content-type: text/plain; charset=us-ascii  
Content-transfer-encoding: 7bit

"Dan W. Dooley" wrote:

>  
> Mark, if it's not too much "trouble", if I were in your position, I'd  
> certainly put the vertical up and see what happens. You might be pleasantly  
> surprised.  
>  
> If you can put it up the 20 foot (I'm assuming you mean at the base) and try  
> some elevated radials to minimize ground losses you referred to, you will  
> probably end up with a better performer than you're giving it credit for.  
> It will give good low angle radiation.  
>

The R7000 will do a good job for you on dx.

HOWEVER, DO NOT add any elevated verticals to the R7000. It is a half wave vertical and is not designed to operate with radials. Adding radials will only detune the antenna and give you nothing but grief.

Follow the instructions and mount the antenna as much as you can in the clear and away from other objects. It does not have to be high. I think the instructions call for something like 8-10 feet.

73 de Dave, N0IT

Happy owner of R5, base up 10 feet from ground. Have used it to work about 300 countries.

-----

Date: Tue, 5 Sep 2000 20:25:46 -0700  
From: "K7FD-N7SG" <cqdx@teleport.com>  
To: <mmfanche@gateway.net>  
Cc: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>  
Subject: [78863] Re: R-7000 Vertical or Dipole  
Message-ID: <000e01c017b2\$27230d40\$d0231ad8@default>  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="windows-1255"  
Content-Transfer-Encoding: 7bit

>Here's hoping for some advice . . .

>

>I operate QRP exclusively and on 40m only using my NorCal 40A. I have a  
>dipole in the trees at about 30'. Its fed with 450 ohm ladder line to a  
>tuner. Tunes to a 1:1 match.

>

>I also have an R7000 vertical in my garage. I can put it up about 20'  
>(using a mast against my one story house). The question I have is: if I  
>install my R7000, will I be getting better performance than I already have  
>with the dipole up 30'?

No, you won't.

Nothing technical to back it up, just 34 years of experience. Stick w/ your  
dipole cut for 40m and enjoy a time-proven winner. If you want more bang for  
your buck, make it a 40m loop. Keep the vertical in the garage.

73 John K7FD

-----  
Date: Tue, 5 Sep 2000 23:33:14 EDT  
From: ARDUJENSKI@aol.com  
To: nwq-1@scn.org, qrp-1@lehigh.edu  
Subject: [78864] FS: EMTECH NW40 \$89  
Message-ID: <f3.274abad.26e714fa@aol.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset="US-ASCII"  
Content-Transfer-Encoding: 7bit

I am going compact for hiking and will be getting either used or as a kit  
the SW series 40 and 20m rigs. The EMTECH NW40 will be excess. It has  
original case and comes with the AF-1 filter. Added RCA and binder posts for  
power connection on the back. Works super just too big for my needs.  
Original paperwork included.  
Shipped US \$89 ---Alan KB7MBI

-----  
Date: Tue, 5 Sep 2000 22:45:43 -0500  
From: "kc0bdw" <kc0bdw@email.msn.com>  
To: "qrp" <qrp-1@lehigh.edu>  
Subject: [78865] Random wire antenna's  
Message-ID: <012901c017b6\$1070f9a0\$241a0f3f@computer>  
MIME-Version: 1.0

Content-Type: text/plain;  
charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

Well first to everyone who offered advice and idea's thank you.. I just noticed something the other day as I adjusting the wires....my house has vinyl siding now I have no idea if that will effect anything...

Also I am using a ZM-2 still have some trouble with 15M but not 30M (unlike what I've read). But over all I very happy it works 80 thru 10.

Tnx,  
Hal

-----  
Date: Wed, 06 Sep 2000 00:11:21 -0400  
From: Pete Burbank <plburbank@kih.net>  
To: <qrp-1@Lehigh.EDU>  
Subject: [78866] Chas Kitchen Regen etc  
Message-ID: <3.0.32.20000906001117.0077a1f8@kih.net>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"

Just sort of completed a regen by Mr. Kitchen using a Far Circuits board. What fun! I haven't calibrated it yet but lots of 80 meter CW at mid point of tuning capacitor...about 400 mmf total swing. The audio is clean and the regen plops in smoothly. The info on the Norcal Site is very correct about layout and shielding certain leads. This radio is very fun to make. This one is the "Scrounger Special" with parts from Dan's, unknown origin, trashed VCRs, military surplus etc. Now to wind a coil for the 40 meter Foxhunt.

Peter Chadwick G3RZP very kindly sent me some Tunnel diodes and hope to have a rig going with them soon on 40. Any circuits or ideas would be appreciated.

I would like to build Paul Harden's Regen...any boards available for that RX?

73 to all

Pete NV4V....one of the hated Ratz

-----

Date: Wed, 6 Sep 2000 00:24:12 -0400  
From: "George Heron N2APB" <n2apb@erols.com>  
To: <plburbank@kih.net>, "QRP-L" <qrp-l@lehigh.edu>, "NJQRP" <NJQRP@njqrp.org>  
Subject: [78867] Re: Chas Kitchen Regen etc  
Message-ID: <008301c017ba\$509e9560\$0100000a@gheron>  
MIME-Version: 1.0  
Content-Type: text/plain;  
        charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

I'm building up several of the Kitchen regen receivers (QST article) with some neighborhood scouts ... but having some problems with getting adequate audio from the LM386 stage.

I'm pretty sure it's working (get hum when finger touches one of the diff inputs), but I'm guessing the floating diode detector output is soooooo very weak that I'm needing to strain to hear any stations coming through even in the headphones. I've replaced the '386, 1N34, and oscillator/transistor ... all several times, to no avail.

Using a 'scope, I see the transistor break into oscillation, and occasionally see some very low level detected audio on the cathode side of the diode, but the signal is likely so low that the amp can't bring it up enough.

Do you have nice, strong audio in your regen? Even enough to drive a small speaker?

Any advice, from anyone, would be appreciated.

73, George N2APB

PS: Question also in to Charles himself, but no response yet. (Only been a few days.)

PPS: Also checked through NorCal's QRPP issue from \_\_\_\_ dedicated to Regen Receivers, but haven't gleaned any insight to this problem yet.

----- Original Message -----

Just sort of completed a regen by Mr. Kitchen using a Far Circuits board. What fun! I haven't calibrated it yet but lots of 80 meter CW at mid point of tuning capacitor...about 400 mmf total swing. The audio is clean and the regen plops in smoothly. The info on the Norcal Site is very correct about layout and shielding certain leads. This radio is very fun to make. This one is the "Scrounger Special" with parts from Dan's,

unknown origin, trashed VCRs, military surplus etc.  
Now to wind a coil for the 40 meter Foxhunt.

Pete NV4V....one of the hated Ratz

-----  
Date: Tue, 05 Sep 2000 10:02:30 -0700  
From: Randy Foltz <rfoltz@turbonet.com>  
To: qrp1\_post <qrp-1@lehigh.edu>  
Subject: [78868] ARCI contest reminder  
Message-ID: <39B52726.CAF016BE@turbonet.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

The QRP ARCI reminds you of the PSK-31 contest,  
End of Summer PSK-31 Sprint, to be held from  
2000 Z to 2400 Z on September 10, 2000.

Summary of rules:

Work stations once. This is a single band 20 m contest.

Exchange is RST, State/Province/Country (SPC), ARCI number  
or power for non-members.

QSO Points are 5 for member, 4 for non-member different  
continent, and 2 for non-member same continent.

Multipliers are SPC total.

Power multiplier is > 5 w = X1, 1-5 W = X7, 250 mW - 1 W =  
X10, < 250 mW = X15.

Final score is QSO points X total SPCs X Power Multiplier.

Entry categories are single op, multi-op, and DX.

Suggested 20 m frequency is 14070.15.

Further details at  
<http://personal.palouse.net/rfoltz/arci/psk31.htm>

Use the High Claimed Scores at  
<http://personal.palouse.net/rfoltz/arci/form.htm> to report  
your score and soapbox.

Send results within 30 days to

Randy Foltz  
809 Leith St.  
Moscow, ID 83843

or e-mail to [rfoltz@turbonet.com](mailto:rfoltz@turbonet.com).

73,  
Randy, K7TQ  
QRP ARCI Contest Chairman

-----  
Date: Wed, 6 Sep 2000 06:12:22 -0400  
From: "Mike Yetsko" <[myetsko@insydesw.com](mailto:myetsko@insydesw.com)>  
To: <[mmfanche@gateway.net](mailto:mmfanche@gateway.net)>, "Low Power Amateur Radio Discussion" <[qrp-1@Lehigh.EDU](mailto:qrp-1@Lehigh.EDU)>  
Subject: [78869] Re: R-7000 Vertical or Dipole  
Message-ID: <00a801c017eb\$45aa0e60\$0600a8c0@dad>  
MIME-Version: 1.0  
Content-Type: text/plain;  
        charset="windows-1255"  
Content-Transfer-Encoding: 7bit

Is anyone else seeing their system try to load alternate character sets  
every time they try to read messages in this thread? It's not too bad  
on my high speed connection, but if I were on a modem...

Mike

> Here's hoping for some advice . . .  
>  
> I operate QRP exclusively and on 40m only using my NorCal 40A. I have a  
> dipole in the trees at about 30'. Its fed with 450 ohm ladder line to a  
> tuner. Tunes to a 1:1 match.  
>  
> I also have an R7000 vertical in my garage. I can put it up about 20'  
> (using a mast against my one story house). The question I have is: if I  
> install my R7000, will I be getting better performance than I already have  
> with the dipole up 30'?  
>  
> In looking through my Pacificon QRP Forum Proceedings '98, I can across  
this

> advice from Roy Lewellen:  
>  
> "Horizontal vs Vertical  
>  
> Over most typical ground, a dipole up more than a quarter wavelength will  
> produce more gain than a vertical, even at low elevation angles.  
Vertically  
> polarized energy striking the ground at low angles is lost, greatly  
reducing  
> the low angle radiation from any vertically polarized antenna. This  
problem  
> can't be corrected by improving the radial system. If you have salt water  
> extending from about 100 to several hundred feet from your antenna, a  
> vertical will produce very good low angle radiation; otherwise it won't.  
> For high-angle radiation (for communicating up to a few hundred miles), a  
> horizontal antenna will greatly outperform a vertical, with optimum height  
> being about 1/4 wavelength. Verticals do, of course, radiate equally in  
all  
> directions, which is an advantage from some locations (but not from here).  
> I never use vertical antennas on Field Day, although I might if I operated  
> on 80 meters, and almost certainly would if I operated on 160."  
>  
> Well, from what Roy says, it sounds dismal for the R-7000. Any advice  
would  
> be appreciated!  
>  
> Thanks!  
>  
> Mark Fancher, W09G  
> mmfanche@gateway.net  
>  
>

-----  
Date: Wed, 06 Sep 2000 06:39:21 -0400  
From: neil tanner <ntan@crosslink.net>  
To: "qrp-1@Lehigh.EDU" <qrp-1@Lehigh.EDU>  
Subject: [78870] my spurs and 20m  
Message-ID: <39B61ED9.FB2AF9C6@crosslink.net>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

still no luck...thanks for the many replies and advice....I have tried  
just about everything I can think of....



Had something like that with the T-kit 1340 and the solution turned out to be the winding on the final / low pass filter were to close together! When moved on there individual toroids so they were all as far apart from each other as possible it went away. There must have been some kind of mutual coupling that is not supposed to go on with toroids? Who knows, try it, nothing to loose! Walt Amos K8CV Royal Oak, MI k8cv@arrl.net

.....This is one thing I haven't tried...

It will be difficult to troubleshoot this without knowing the exact schematic or layout. I would suggest that you use W6EMT's low pass network instead of the one you use on the VX0. Filters are designed for specific input and output impedances and EMT's is probably designed for the final you are using and your design is not. If the final sees a wierd impedance from your network, it could oscillate. Presumably the one EMT designed is stable with his amplifier impedances. James R. Duffey KK6MC/5

...OK removed the network I originally used and built the one that w6emt show and am still getting swr problems and spurs....

Overdriven amplifiers are often prone to oscillation, so you might reduce the drive to see if this helps. James R. Duffey KK6MC/5

I have reduced power back to about 300mw and there it seems to sound and work better....

Poor grounding practice can cause lots of problems, including parasitic oscillations. Building a circuit over a groundplane such as is done in ugly or Manhattan style construction helps here. I don't know what your design looks like. James R. Duffey KK6MC/5

I will double check my grounds....I am using double side but etched only one side and just mounted everything on the same side, including the ground....one thing I haven't

done is bond the bottom  
copper to the ground on the parts side....maybe this is a problem...

Some designers include a ferrite bead or resistor in the base lead to the  
driver to reduce the gain at VHF and prevent oscillations. James R.  
Duffey KK6MC/5

I have a bead there and am using a 47ohm resistor at the base...

If your NW20 works fine into a dummy load there is nothing wrong  
with it rf wise. I'm surprised that you can only get a 1.5-1 SWR with a  
antenna tuner. I Always get 1-1 with my MFJ. I borrowed a NW20 and it  
worked just fine on both of my antenna using the tuner to achieve 1-1  
SWR. So I think your  
problem is in the tuner/antenna system. Look there  
for a cure. Karl Larsan

Don't think this is the problem...other rigs including commercial rigs  
work fine with the setup...fb with  
the 1--1 match

The output of your rig is not tuned to 20 Meters. It will  
load into the dummy load because that doesn't care what the  
freq.  
is but your antenna does because it wants to look at a freq.  
of 20 Meters. W9UQB Mike

This seems to be the thought from most of the replies I am  
getting....any suggestions, Mike? I'm not  
letting this puppy whip me! I think the double side copper could be  
something to look  
into...although it is bonded because I am attaching the boards to the  
metal cabinet with machine  
screws and would think all is tied together, but will still bond...

You can use seperate boards for the various circuits BUT be sure they  
are bonded together very carefully. Use braid and solder lugh under teh

mounting screws. I have also used this approach many times with  
success. Bruce w6toy

Will double check...and follow thru...

I have seen a lot of postings about spurs and also overdriving. I have  
never built any of Roy's radios but I am sure he has included protection  
against overdriving. You have modified the final enough that whatever

protection he incorporated for spurs probably isn't there any more. I remember you saying something about eliminating a bifilar toroid in the final Vcc supply. That may have been critical. I have always found that it is best to build someone's design exactly as they built it. Then modify! Bruce w6toy

The schematic I followed was printed in Hambrew...later I purchased a building manual from Dans and noticed that there were a few corrections to the design in HB.....so designers do make mistakes....but now the rig is just about the way he describes it and its gotta be something like the double sided copper acting like a capacitor...maybe....

Take care to insure your transmitter is tuned up carefully and is not transmitting any spurs. Howard Kraus, K2UD

I am trying!!! but still need to do some trouble shooting....\\ man is this troublesome....glad I don't work 20m much...love 40m.... Thanks for the support...Neil wa4chq

-----  
Date: Wed, 6 Sep 2000 06:47:26 EDT  
From: DaveLeDuc@aol.com  
To: qrp-l@lehigh.edu  
Subject: [78871] RE: listen for me  
Message-ID: <62.6eff699.26e77abe@aol.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset="US-ASCII"  
Content-Transfer-Encoding: 7bit

A heartfelt thank you to those who managed to make it through a QSO with me. I can notice an improvement after only a day or so. Still a ways to go. However, I can read Morse as fast as I used to. So you dot have to slow down.  
73 Dave K1EPJ

-----  
Date: Wed, 6 Sep 2000 08:20:28 -0700  
From: k8ff@juno.com  
To: qrp-l@lehigh.edu  
Subject: [78872] FS K2  
Message-ID: <20000906.082044.-986925.0.k8ff@juno.com>  
MIME-Version: 1.0  
Content-Type: text/plain

Content-Transfer-Encoding: 7bit

The K2 has been sold THANKS to all that responded.

72, Wayne K8FF

-----  
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<http://dl.www.juno.com/get/tagj>.

-----  
Date: Wed, 06 Sep 2000 08:28:54 -0400

From: "John L. \"Jake\" Carter" <jakecart@ix.netcom.com>

To: GQRP-L <qgrp@onelist.com>, NJ QRP Club <njqrp@njqrp.org>, QRP-L <qrp-  
l@lehigh.edu>

Subject: [78873] QRP Portable on the NC Outer Banks, de N4UY

Message-ID: <39B63885.F7C8AF4A@ix.netcom.com>

MIME-Version: 1.0

Content-Type: text/plain; charset=us-ascii

Content-Transfer-Encoding: 7bit

Last week I took my Small Wonder Labs GM-20 (with internal TiCKeyer and Freqmite) a gel cell and 20m wire dipole to the Outer Banks of NC -- Corolla, NC -- grid square FM26. The GM-20 put out about 1.5 watts with the gel cell. Antenna was set up as an inverted V, hung off the beach house's 2nd floor deck.

Some of the stations in the TOEC contest got pretty excited when they heard I was in FM26 -- FM26 is all water except for a little bit of the NC coast.

Worked the following stations:

| Date<br>Sent/RST | Call<br>Rcvd | Name/loc      | Time  | Freq    | RST     |
|------------------|--------------|---------------|-------|---------|---------|
| 26Aug2000        | n4bp         | Bob. FL       | 1945  | 14.060. | 599/599 |
| 26Aug2000        | g0ivz        | io70          | 2003  | 14.013  | 599/599 |
| 26Aug2000        | co0jd        |               | 2118  | 14.010. | 599/599 |
| 26Aug2000        | ra1acj       | Slava         | 2123  | 14.013  | 599/559 |
| 26Aug2000        | ur5wal       | kn29          | 2134  | 20m     | 599/599 |
| 26Aug2000        | ly4mr        | ko24          | 2138  | 14.026  | 599/599 |
| 27Aug2000        | ut5uia       | ko50          | 0011z | 14.027  | 599/599 |
| 27Aug2000        | eu6tv        | Nick          | 0021z | 14.035  | 559/449 |
| 27Aug2000        | 9a1cms       | jn86          | 0123z | 20m     | 599/599 |
| 27Aug2000        | ux5mz        | Igor, Lugansk | 0137z | 14.045  | 589/569 |

|           |            |                   |       |         |         |
|-----------|------------|-------------------|-------|---------|---------|
| 27Aug2000 | wb9iff     | Woody, IL, 100 mw | 1902  | 14.063  | 329/579 |
| 27Aug2000 | n4bp       | Bob, Fl           | 1909  | 20m     | 599/599 |
| 27Aug2000 | i1pin      | Carlo, Torino     | 2136  | 14.037  | 569/449 |
| 28Aug2000 | ac4pm      | Albert, WI        | 1447  | 14.060. | 559/449 |
| 29Aug2000 | kk5ib/qrp  | Darryl, Ar        | 0100z | 14.060. | 579/559 |
| 29Aug2000 | va7bm      | Bob, Victoria     | 0243z | 20m     | 569/449 |
| 29Aug2000 | 8p9js      | split 14.007/8    | 1324  | 14.007  | 599/599 |
| 29Aug2000 | nf0r       | Dave, St Louis    | 2145  | 14.062  | 449/539 |
| 30Aug2000 | k9sk       | Dale, WI          | 1224  | 14.016  | 579     |
| 30Aug2000 | kd8hb/m    |                   | 1329  | 14.057  | 559/339 |
| 30Aug2000 | w9jas      | Stan, Peoria, Il  | 1614  | 14.061  | 589/579 |
| 30Aug2000 | kw7d       | Paul, NM Fists    | 2111  | 14.059  | 579/449 |
| 30Aug2000 | hb9iiy     | Eddy              | 2130z | 14.017  | 569/339 |
| 30Aug2000 | k3nwd      | Bill              | 2152  | 14.062  | 579/569 |
| 30Aug2000 | ok1hf      | Milan, Prasa      | 2227  | 14.015  | 579/449 |
| 31Aug2000 | 9a7z       | Luka              | 0143z | 14.026  | 579/559 |
| 31Aug2000 | wb9mii/qrp | Greg              | 1416  | 14.046  | 559/339 |
| 31Aug2000 | kd8hb/m    |                   | 1428  | 14.057  | 599/559 |
| 31Aug2000 | f8cfo      | Jean              | 1951  | 14.061  | 599/599 |

Had a good time. Highlights were working WB9IFF (he was at 100 milliwatts to an attic antenna), and working 8P9JS split -- glad the GM-20 has a RIT!!

73,

Jake -- N4UY  
Vienna, VA

-----  
Date: Wed, 06 Sep 2000 08:44:41 -0400  
From: Pete Burbank <plburbank@kih.net>  
To: n2apb@erols.com, <qrp-l@Lehigh.EDU>  
Subject: [78874] Re: Chas Kitchen Regen etc  
Message-ID: <3.0.32.20000906084437.0077d088@kih.net>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"

At 12:24 AM 9/6/00 -0400, you wrote:

>I'm building up several of the Kitchen regen receivers (QST article) with  
>some neighborhood scouts ... but having some problems with getting adequate  
>audio from the LM386 stage.  
>  
>I'm pretty sure it's working (get hum when finger touches one of the diff  
>inputs), but I'm guessing the floating diode detector output is soooooo very  
>weak that I'm needing to strain to hear any stations coming through even in

>the headphones. I've replaced the '386, 1N34, and oscillator/transistor ...  
>all several times, to no avail.  
>  
>Using a 'scope, I see the transistor break into oscillation, and  
>occasionally see some very low level detected audio on the cathode side of  
>the diode, but the signal is likely so low that the amp can't bring it up  
>enough.  
>  
>Do you have nice, strong audio in your regen? Even enough to drive a small  
>speaker?  
>  
>Any advice, from anyone, would be appreciated.  
>  
George,  
Yes the audio is marginal. I was using some small Nova phones  
and the level is adequate but certainly not overwhelming.  
This AM I connected a speaker and got some motorboating  
upon advancing the AF gain pot. I snapped in a fresh 8,4 volt  
nicad with same results. I suspect a stiffer 12v supply would help.  
You mention a 1n34.....my RX doesn't use one.  
BTW used a J310 FET.  
I'm happy since basic operation is fine, just have to iron  
out a few kinks.  
73 Pete NV4V

-----  
Date: Wed, 6 Sep 2000 08:49:54 -0400  
From: "Lau, Zack, W1VT" <zlau@arrl.org>  
To: "'qrp-1@Lehigh.EDU'" <qrp-1@Lehigh.EDU>  
Subject: [78875] Re: AT-11 measured loss  
Message-ID: <125490A005E3D3118C9C00805FC743CC8D9C25@mail.arrl.org>  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="iso-8859-1"

Joe, the substitution method only works for resistive loads. With a complex  
load, you need the  
complex conjugate of the reactive part--which is not symmetrical unless the  
reactance is zero. Zack W1VT

-----  
Date: Wed, 6 Sep 2000 07:41:22 -0600  
From: "Bruce Kizerian" <kizerian@ced.utah.edu>  
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>  
Subject: [78876] Re: Chas Kitchen Regen etc

Message-ID: <08e701c01808\$254d45c0\$de56d9d8@sarcos.com>

Notes to those building the Kitchin regen:

There is a BIG difference in sensitivity among stereo headphones, and this will make a BIG difference in the performance of your radio. Avoid cheap no-name headphones--even some quality brand names are real duds when it comes to sensitivity. Sony headphones are uniformly excellent and much more sensitive than many other brands. The inexpensive ear buds will give you the most volume. The bottom-of-the-line Sony over the ear phones are, also, very good. These are available locally for less than ten dollars.

Use a longer antenna. This will help get more signal to the LM386. and more volume to your headphones.

All "2N2222s" are not equal. Some are real weaklings, though the ones purchased from reputable places, such as Mouser, are generally good ones.

Experiment with higher gain transistors if you are still having problems. The 2N4124 comes to mind. I sometimes play with a Japanese 2SC1740, though it seems to be a bit unstable in Kitchin's circuit because of its very high gain.

Put a FET buffer between the 2N2222 and the detector diode. Use a J310 JFET, or, my favorite, a 2SK241 IGFET. The grounded base oscillator in Kitchin's circuit is very sensitive to the load on the collector, and its gain can increase dramatically with a very high impedance load.

All 1N34s are not equal. Crystal radio enthusiasts claim that the clear package Radio Shack units work better than the blue package ones. I am not so sure of this, but it is worth a try.

Charles Kitchin's regen has been optimized to the point where you will have a great deal of trouble making significant improvements to his regen stage. I keep trying without much success. This circuit was developed and optimized for ten years or so. It really is a phenomenal circuit--especially, when you consider its simplicity.

If it worked like a \$1000+ receiver what fun would it be? Experiment. Play with the circuit. That is half the fun.

Hope this helps.

Bruce kk7zz

-----  
Date: Wed, 6 Sep 2000 09:48:32 US/Eastern  
From: n2cx@voicenet.com  
To: qrp-l@lehigh.edu  
Cc: zlau@arrl.org  
Subject: [78877] Re: AT-11 measured 1o  
Message-ID: <200009061348.JAA131144@nss4.cc.lehigh.edu>

Zack,

Of course you are right!

When I wrote up my reply there was something niggling in the back of my mind.  
That's why I ended the post with "I think".

Guess I've spent too much time pushing paper and generating block diagrams...

(OT aside) I will get a break from that later this month. I'm enrolled in an in-  
hosue  
week-long training class on EESOF! That should be fun.

72/73,

Joe E., N2CX

You wrote:

>Joe, the substitution method only works for resistive loads. With a complex  
>load, you need the  
>complex conjugate of the reactive part--which is not symmetrical unless the  
>reactance is zero. Zack  
W1VT

-----  
This message was sent using Voicenet WebMail.  
<http://www.voicenet.com/webmail/>

-----  
Date: Wed, 6 Sep 2000 09:49:44 -0400 (EDT)  
From: Dan Halbert <halbert@bbn.com>  
To: qrp-l@lehigh.edu  
Subject: [78878] Free QST's 1990-96 in Boston, MA area



Message-ID: <200009061349.JAA27085@siu>

I have a set of QST magazines, 1990-1996 to give away. I'd rather not ship them. They are available for pick-up in Cambridge or Newton, MA, or nearby.

Dan, KB1RT

-----  
Date: Wed, 6 Sep 2000 10:21:55 EDT  
From: K5KW@aol.com  
To: qrp-L@lehigh.edu  
Subject: [78879] Technical - Rig Protection Tricks  
Message-ID: <f6.27dc53d.26e7ad03@aol.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset="US-ASCII"  
Content-Transfer-Encoding: 7bit

Gang,

Pickett, AD4S, wrote:

Check out the NoGa Power/Indicator Guard at:

<http://www.qsl.net/nogaqrp>

Let me add "amen" to his comments about the NoGaPig.  
I not only leave home without it, I never connect a QRP rig to power at home without it, either. Cheap insurance against the "evils" listed by Pickett..compared to the price of the K2 at the other end. And you wouldn't believe the looks I get when asked "What's inside the Altoids tin?" and I tell 'em "My NoGaPig"!!

The usual disclaimers, just a happy Okie with one more Pig.

Don, K5KW

-----  
Date: Wed, 6 Sep 2000 09:31:31 -0500  
From: "Kevin Muenzler, WB5RUE" <wb5rue@arrl.net>  
To: "'Low Power Amateur Radio Discussion'" <qrp-l@Lehigh.EDU>  
Subject: [78880] RE: Technical - Rig Protection Tricks  
Message-ID: <000001c0180f\$27161ab0\$ef5d6f81@v8.uthscsa.edu>

MIME-Version: 1.0  
Content-Type: text/plain;  
charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

I must have missed this one! This is excellent! This is great for running from a generator/battery or for mobile/lighter based power.

Kevin, WB5RUE  
Leeniers? We dunt need no steekeeng leeniers!

> -----Original Message-----  
> From: owner-qrp-l@Lehigh.EDU  
> [mailto:owner-qrp-l@Lehigh.EDU]On Behalf Of  
> K5KW@aol.com  
> Sent: Wednesday, September 06, 2000 9:22 AM  
> To: Low Power Amateur Radio Discussion  
> Subject: Technical - Rig Protection Tricks  
>  
>  
> Gang,  
>  
> Picket, AD4S, wrote:  
>  
>  
> Check out the NoGa Power/Indicator Guard at:  
>  
> <http://www.qsl.net/nogaqrp>

-----  
Date: Wed, 6 Sep 2000 11:02:11 EDT  
From: K5KW@aol.com  
To: qrp-l@lehigh.edu  
Subject: [78881] Technical - Correction  
Message-ID: <3d.9160cd.26e7b673@aol.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset="US-ASCII"  
Content-Transfer-Encoding: 7bit

Re: My endorsement of the NoGaPig, Karl, W8TIF Wrote:

Don,

Don't you mean you *\*never\** leave home without it?

(just couldn't resist!)

Karl K - W8TIF  
McKinney, Texas

Yep, Karl, that's what I \*meant\* to say. That's what happens when your fingers are quicker than your mind.

Don, K5KW

-----  
Date: Wed, 6 Sep 2000 11:28:22 -0400  
From: Bill Coleman AA4LR <aa4lr@radio.org>  
To: <mmfanche@gateway.net>, <qrp-1@Lehigh.EDU>  
Subject: [78882] Re: R-7000 Vertical or Dipole  
Message-ID: <1000806112821.LAA11520@gate.iterated.com>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="US-ASCII"

On 9/5/00 10:26 PM, mmfanche at mmfanche@gateway.net wrote:

>I operate QRP exclusively and on 40m only using my NorCal 40A. I have a  
>dipole in the trees at about 30'.

That's kind of low for a 40m dipole. It's barely a 1/4 wave in the air. I suspect the angle of radiation is quite high, with little toward the horizon. It may be great for close-in work, especially during the day when the MUF is high, but not for DX.

>I also have an R7000 vertical in my garage. I can put it up about 20'  
>(using a mast against my one story house).

This is about the optimum height for an R7000.

>The question I have is: if I  
>install my R7000, will I be getting better performance than I already have  
>with the dipole up 30'?

I have an R7000 at 8', and it has been my primary antenna since 1996.  
(That's going to change soon, when the tower finally goes up)

The R7000 isn't the greatest antenna, but it seems to perform adequately on most bands.

The only band I feel the R7000 is "loud" on is 40m. It seems to do well there, with a markedly low angle of radiation. This means it is good for

DX.

If you can, leave the dipole up and put up the R7000. It will give you an antenna you can switch to, so you can do your own comparisons.

Bill Coleman, AA4LR, PP-ASEL                      Mail: aa4lr@radio.org  
Quote: "Boot, you transistorized tormentor! Boot!"  
-- Archibald Asparagus, VeggieTales

-----  
Date: Wed, 6 Sep 2000 08:40:36 -0700 (PDT)  
From: Monte Stark <ku7y@dri.edu>  
To: mmfanche <mmfanche@gateway.net>  
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>  
Subject: [78883] Re: R-7000 Vertical or Dipole  
Message-ID: <Pine.GS0.4.10.10009060819270.27380-1000000@rotor.dri.edu>  
MIME-Version: 1.0  
Content-Type: TEXT/PLAIN; charset=US-ASCII

Hi Mark,

Good question, to which there is no real Yes or No answer.

You now have a dipole up about 1/4 wave. IMHO opinion, this means that you don't know what the pattern is. At about 1/2 wave high, over clear ground (or water) the pattern would be more like the "book" shows. But low horizontal antenna patterns get upset by all the building, power lines and other things in the near field, and even to some extent, in the far field.

So unless you have really done a LOT of measuring, you don't know just how well your antenna is working.

Another thing to keep in mind is that as propagation changes with time, the "best" antenna can change back and forth from one to another. Your dipole might be the best antenna to start with but an hour later the sig might be better on the vertical.

This is one of the reasons that the big contest stations have so many antennas on any given band.

I have USUALLY, but not always, found that a vertical will

do a better job for me than a low (less than about 5/8 wave) horizontal antenna for DX.

I suggest that you put the vertical up, following the directions. (I don't think you want any radials with the R-7000).

Be sure to include some way to switch between the two antennas and listen. You will soon learn a lot.

As an example of how fickle antennas can be here is an observation from 2 different 10m contests, just one year apart. Same station, antennas, radios and operator:

In the 1998 contest, I found that on about 95% of the sigs that my vertical (DX-77 at 30') was hearing ALL sig's from 3 to 5 S units better than my yagi at 85'! This included both DX and stateside stations. Now and then some of the stations from SA would be better on the yagi.

When the 1999 contest started, I thought I knew what to do.....BUT..... there was not even ONCE where the vertical had the louder sig this time!

But at least I was ready! (And I was lucky enough to make the top ten box both years, so that was a real thrill!)

So while looking at antennas from a pure theory point of view is good and worthwhile, don't ever fail to do the other half of the antenna learning process.....put up another antenna and take lots of notes!

I'd also suggest that you always keep that dipole to use as your reference antenna. Then you will have a solid base for your notes.

Armed with the dipole, vertical, loop and inverted Vee, you would have quite the choice for most any condition!

Hope this helps,

73, Ron

.....KU7Y.....ARCI #8829.....Monte "Ron" Stark.....  
....ku7y@qsl.net....SOC #2.....Nevada....NRA LIFE....  
.....SOWP 5545M.....WHINERS #1.....ZOMBIE #18.....  
....Visit my Home Page.....<http://www.qsl.net/ku7y/>....

-----  
Date: Wed, 6 Sep 2000 10:57:11 -0500  
From: "Gary Lee Phillips" <ka9nzi@arrl.net>  
To: schoon@amgt.com, qrp-1@lehigh.edu  
Subject: [78884] Determining tree height  
Message-ID: <200009061557.KAA16101@mail.lib.colum.edu>

It is indeed possible to determine the height of a tree by measuring its shadow. Assuming that you don't have a sextant or an ephemeris to determine the elevation angle of the sun, you will need another object, such as a fence post, of known or measurable height.

Remember that if either the fence post or the tree are leaning, you want to measure shadows from a point directly below the top, not from the base where it enters the ground. Use a plumb bob on a string for a leaning fence post, and for the tree just make your best guess and you'll be accurate within a few feet. Make all measurements within a period of a few minutes, as the shadow lengths will change constantly (I trust this is obvious.)

Measure distance from base of post (or point directly below top of post if it is leaning) to tip of shadow (A)  
Measure vertical height of fence post (B)  
Measure distance from base of tree (or point directly below top of tree if it is leaning) to tip of shadow (X)

Let Y be the height of the treetop. Now  $Y = X * B / A$  (divide B by A, then multiply the result by X to get Y) is the calculation you want. It is based on the theorem that for any two right triangles with the same angles, the ratio of the legs will be the same, so you don't even need to use any trigonometric functions.

Assuming you need only a fair approximation rather than the accuracy of a surveyor, this method will work fine and requires only a tape measure and perhaps a plumb line. Great for a tree that stands enough apart so you can tell its shadow from those of other adjacent trees. For the height of one tree in a grove, you probably need a sextant or transit to take angular measurements instead.

-- Gary Phillips, Marengo, IL <mailto:ka9nzi@arrl.net>

KA9NZI, Seneca Twp., McHenry Co., IL Grid: EN52rg  
QRP-L #2124 <http://www.qsl.net/ka9nzi/>

-----  
Date: Wed, 6 Sep 2000 08:54:36 -0700  
From: "Andreas Junge" <andreas@OpenGrid.Com>  
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>, <mmfanche@gateway.net>  
Subject: [78885] RE: R-7000 Vertical or Dipole  
Message-ID: <NDBBKLLBBLCGOKEGAAMIEEHKDIAA.andreas@opengrid.com>  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="windows-1255"  
Content-Transfer-Encoding: 7bit

Mark,

I have both, a multiband dipole at 50 feet (AlphaDelta DX-EE) and a R7000 at 10 feet. The dipole is a fan dipole for 40/20, 15 and 10M. The dipole usually kicks the sh!@# out of the vertical, but the R7000 performs well on the warc bands, especially on 30M. And again, that's true for my setup, mileage may vary.

I have to agree with everybody else, setup BOTH antennas and get a switch. And no radials for the R7000.

73,

Andreas, N6NU

> -----Original Message-----  
> From: mmfanche [mailto:mmfanche@gateway.net]  
> Sent: Tuesday, September 05, 2000 7:26 PM  
> To: Low Power Amateur Radio Discussion  
> Subject: R-7000 Vertical or Dipole  
>  
>  
> Here's hoping for some advice . . .  
>  
> I operate QRP exclusively and on 40m only using my NorCal 40A. I have a  
> dipole in the trees at about 30'. Its fed with 450 ohm ladder line to a  
> tuner. Tunes to a 1:1 match.  
>  
> I also have an R7000 vertical in my garage. I can put it up about 20'  
> (using a mast against my one story house). The question I have is: if  
> I  
> install my R7000, will I be getting better performance than I already

> have  
> with the dipole up 30'?  
>  
> In looking through my Pacificon QRP Forum Proceedings '98, I can across  
> this  
> advice from Roy Lewellen:  
>  
> "Horizontal vs Vertical  
>  
> Over most typical ground, a dipole up more than a quarter wavelength  
> will  
> produce more gain than a vertical, even at low elevation angles.  
> Vertically  
> polarized energy striking the ground at low angles is lost, greatly  
> reducing  
> the low angle radiation from any vertically polarized antenna. This  
> problem  
> can't be corrected by improving the radial system. If you have salt  
> water  
> extending from about 100 to several hundred feet from your antenna, a  
> vertical will produce very good low angle radiation; otherwise it won't.  
> For high-angle radiation (for communicating up to a few hundred miles),  
> a  
> horizontal antenna will greatly outperform a vertical, with optimum  
> height  
> being about 1/4 wavelength. Verticals do, of course, radiate equally in  
> all  
> directions, which is an advantage from some locations (but not from  
> here).  
> I never use vertical antennas on Field Day, although I might if I  
> operated  
> on 80 meters, and almost certainly would if I operated on 160."  
>  
> Well, from what Roy says, it sounds dismal for the R-7000. Any advice  
> would  
> be appreciated!  
>  
> Thanks!  
>  
> Mark Fancher, W09G  
> mmfanche@gateway.net

-----  
Date: Wed, 6 Sep 2000 09:33:34 -0700  
From: "Bob Tellefsen" <n6wg@earthlink.net>  
To: <qrp-1@Lehigh.EDU>  
Subject: [78886] Re: R-7000 Vertical or Dipole



Message-ID: <002301c01820\$33c8ed80\$33c3b3d1@oemcomputer>  
MIME-Version: 1.0  
Content-Type: text/plain;  
    charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

Mark

My heartiest recommendation is to keep both antennas up, and get an A-B antenna switch.

You will find times when a given station will be substantially stronger on the dipole than on the vertical. The reverse is also true. With QRP, you need all the options you can have. You won't regret it.

Each antenna type has its place. You really need both.

73, Bob N6WG

-----  
Date: Wed, 06 Sep 2000 16:35:14 GMT  
From: "laura halliday" <marsgal42@hotmail.com>  
To: qrp-l@lehigh.edu  
Subject: [78887] Re: new DC mixer?  
Message-ID: <F135egIqunL0yDc41W200004603@hotmail.com>  
Mime-Version: 1.0  
Content-Type: text/plain; format=flowed

There is nothing magic about image-reject mixers.

The underlying theory is based on a complex mixer, passing the signal through a filter with an anti-symmetric frequency response, so that negative frequencies are unchanged, while positive frequencies are inverted. A few lines of mathematics show that this is an across-the-board 90 degree phase shift, and is also a Hilbert Transform. The rest falls in to place. Diagrams and a couple of key equations explain it in seconds. Words fail completely, and I won't try.

References: Hahn's book on Hilbert Transforms. Any decent book on communication systems (e.g. Haykin). See <http://www.qsl.net/ve7ldh/reading.html>

Laura Halliday VE7LDH      "Que les nuages soient notre  
Grid: CN89mg                pied a terre..."  
                                 - Hospital/Shafte

-----  
Get Your Private, Free E-mail from MSN Hotmail at <http://www.hotmail.com>.

Share information about yourself, create your own public profile at  
<http://profiles.msn.com>.

-----  
Date: Wed, 6 Sep 2000 13:05:59 -0400  
From: "Wilford D. Lindsey" <70511.3041@compuserve.com>  
To: QRP-L Discussion Group <QRP-L@Lehigh.edu>  
Cc: "W.D.(Doc)Lindsey/K0EVZ" <70511.3041@compuserve.com>  
Subject: [78888] K0EVZ QSLs in the US Post  
Message-ID: <200009061306\_MC2-B254-117B@compuserve.com>  
MIME-Version: 1.0  
Content-Transfer-Encoding: quoted-printable  
Content-Type: text/plain;  
charset=ISO-8859-1  
Content-Disposition: inline

Gang:

Mea culpa, but at long last I have mailed all the QSL cards I have  
received. Sorry it took so long but at least they are on the way. Thank=  
s  
for you patience.

72/73,  
--W.D. (Doc) Lindsey  
DSBF  
PO Box 6028  
Bismarck, ND 58506  
(Shipping =3D DSBF, 2020 Lovett Ave, Bismarck, ND, 58504)  
E-Mail =3D K0EVZ@arrl.net

-----  
Date: Wed, 06 Sep 2000 12:26:22 -0500  
From: Marty <N5NW@midsouth.rr.com>  
To: qrp-l@lehigh.edu  
Subject: [78889] Re: Grounding question from QST  
Message-ID: <nhvcrs40k30gi9gnjvtedlqpmajnuaql2v0@4ax.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: quoted-printable

On Tue, 5 Sep 2000 22:53:41 -0400 , "Hare, Ed, W1RFI" <w1rfi@arrl.org> =

wrote:

>Actually, the articles are not as contradictory as might appear. One is  
>talking about transmitter grounding, which could put very high RF =  
currents  
>onto the ground system. If this ground were for an end-fed antenna, =  
those  
>currents could be very high indeed, possibly causing RF burns to people =  
who  
>touched the ground in other areas of the building.

I think what is confusing me, is the answer to the second grounding =  
question  
on p. 60 of this month's QST (September 2000). The question is:

Michael, KD5BBC, asks, "I live in a second-floor apartment, so attaching =  
a  
ground wire to a ground rod is out of the question. Since I can't =  
connect to  
a ground rod, should I still connect the grounds of all of my equipment  
together? I son't seem to have a problem with RF feedback in the shack, =  
and  
transmitting on 40 through 10 meters with 100W doesn't seem to affect =  
either  
my computer on the other side of the room or my TV in the next room. I =  
have  
what appears to be an active ground on the 3-plug electrical line =  
(according  
to the tester I bought at RadioShack). Should I try to ground to that, =  
or  
would that also be asking for problems?"

The given answer is:

"Yes, absolutely connect all the euipment in the shack together and then=  
to  
the ground on the wall socket. A good way to accomplish this is to check=  
that  
the screw holding the cover in place is grounded. You can do this by =  
first  
turning off the circuit breaker to the plug and measuring between the =  
screw  
and the ground plug with an ohmmeter. The strip the braid off some old =  
coax  
to make a nice flexible ground strap between your station and the screw. =  
That  
takes care of the safety ground. you'll still need an RF ground, which =  
often

takes the form of a counterpoise wire. See my answer to W6RLF earlier in= this column.

"Also, check out 'Antennas and Grounds for Apartments' on the TIS Web = page at:  
[http://www.arrl.org/tis/ under Antennas/Grounding.](http://www.arrl.org/tis/underAntennas/grounding)"

Thus my confusion. It seems to me that a chassis ground will be both = safety, but will also bleed RF into the electrical system. While the questioner indicates He doesn't have RF, wouldn't any mismatch be fed back into the electrical system through the wall socket ground?

--

Marty, N5NW

-----=  
-----  
Lakeland (Memphis), Tennessee =  
<http://marty.w.tripod.com/>  
N5NW@midsouth.rr.com

-----  
Date: Wed, 6 Sep 2000 19:23:49 +0200  
From: "Hans Kaper" <[hanskap@kaper-1.tmfweb.nl](mailto:hanskap@kaper-1.tmfweb.nl)>  
To: <[qrp-1@lehigh.edu](mailto:qrp-1@lehigh.edu)>  
Subject: [78890] Websites for simple equipment (homebrew)  
Message-ID: <000201c01827\$b22c1b00\$410c643e@tm981195>  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

Hello everybody,  
Encouraged by some of you guys, I plan to give it a try again; homebrewing. Is there somebody who can advise me on where to find websites which have plans and descriptions of simple homebrew stuff?  
As a member of BQC (Benelux QRP Club) I have already plans for Pixie tranceiver and for a simple CW transceiver for different HF bands. Maybe there is something in the order of 1 or 2 watts output? (I think a Pixie has an output of 300 mW max.)  
For those who advised me earlier: I discovered 30 meters! Last 2 weeks got 3 new entities. Indeed it pays to operate and to practice that although you don't work new countries all the time. I discovered 30 meters because I installed a wire loop which can be tuned to almost any band. Before I used resonant dipoles for 40, 20, 15 and 10 meters.

Hope my English makes sense. (I do not say that to act modest, I am a bit lazy: I don't use a dictionary all the time.)

CU,

Hans PA3HGM

-----  
Date: Wed, 06 Sep 2000 13:24:02 -0400  
From: Ken Newman <N2CQ@citnet.com>  
To: atrail-l@lehigh.edu, epaqrp-l@lehigh.edu, QRP-L@lehigh.edu, njqrp@njqrp.org  
Cc: qrp@netins.net  
Subject: [78891] Appalachian Trail Operation  
Message-ID: <3.0.6.32.20000906132402.007bf9b0@mail.citnet.com>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"

Hi All,

I will be operating from the Appalachian Trail at all times listed below.  
I hope to provide a contact for those wishing to complete the Appalachian Trail

Awards given by the Eastern Pa. QRP Club.

<<http://www.n3epa.org/Pages/AT/AT.htm>> for details.

My log is in need of states for the "Trail WAS", especially the 14 states the A-T goes through. I'm always glad to contact DX as well.

Hope to hear you soon and often!

Operating Times:

Day:1300z to 2200z    Eve: 2300z to 0300z

Sept 7 (Eve) thru Sept 10 (Eve)  
Big Meadows, Skyline Drive, VA

Sept 11 (Eve) thru Sept 12 (Eve)  
Nr. Harpers Ferry, WV

Sept 13 1300z - 2300z  
Washington Monument State Park, MD (Nr. Boonsboro)

40 Meters CW (7043 +/-) On the even hour UTC  
20 meters CW (14062 +/-) On the odd hour UTC  
15 Meters CW (21062 +/-) On the odd half hour UTC

I will be on 40m most often or 30m if slow activity on 20-15m times.

72 de Ken Newman - N2CQ  
N2CQ@ARRL.NET

-----  
Date: Wed, 06 Sep 2000 12:27:10 -0500  
From: bob evinger <wd9eka@arrl.net>  
To: unlisted-recipients;; (no To-header on input)  
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>  
Subject: [78892] Re: R-7000 Vertical or Dipole  
Message-ID: <39B67E6E.B746FBD4@arrl.net>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

Not sure who originally started the thread, but my \$.02. I have a 40 1/2 wave dipole that is approximately the same elevation it is however slightly sloped to the east. maybe a 10 foot elevation difference end to end.

One end was at about 45 foot the other at 35. Last winter during the RTTY roundup I was up late and doing the hunt and pounce. I heard a station that I had assumed was a caribbean island, I ended up working him on 40 that night and 20 on the following day. It wasn't until I looked up his call to qsl that I found out that he was in slovenia or slovakia, can't remember which one off the top of my head. I think the call was S58T.

So a 40 dipole at approx 40 foot can work DX. Can't say if that extra 10 foot or the slight slope would make that much difference or not though.

bob

Bill Coleman AA4LR wrote:

>  
> On 9/5/00 10:26 PM, mmfanche at mmfanche@gateway.net wrote:  
>  
> >I operate QRP exclusively and on 40m only using my NorCal 40A. I have a  
> >dipole in the trees at about 30'.  
>  
> That's kind of low for a 40m dipole. It's barely a 1/4 wave in the air. I  
> suspect the angle of radiation is quite high, with little toward the  
> horizon. It may be great for close-in work, especially during the day  
> when the MUF is high, but not for DX.

>  
> >I also have an R7000 vertical in my garage. I can put it up about 20'  
> >(using a mast against my one story house).  
>  
> This is about the optimum height for an R7000.  
>  
> >The question I have is: if I  
> >install my R7000, will I be getting better performance than I already have  
> >with the dipole up 30'?  
>  
> I have an R7000 at 8', and it has been my primary antenna since 1996.  
> (That's going to change soon, when the tower finally goes up)  
>  
> The R7000 isn't the greatest antenna, but it seems to perform adequately  
> on most bands.  
>  
> The only band I feel the R7000 is "loud" on is 40m. It seems to do well  
> there, with a markedly low angle of radiation. This means it is good for  
> DX.  
>  
> If you can, leave the dipole up and put up the R7000. It will give you an  
> antenna you can switch to, so you can do your own comparisons.  
>  
> Bill Coleman, AA4LR, PP-ASEL Mail: aa4lr@radio.org  
> Quote: "Boot, you transistorized tormentor! Boot!"  
> -- Archibald Asparagus, VeggieTales

--

Bob Evinger WD9EKA Marshall, Illinois  
If Guns Cause Crime, Then Matches Cause Arson.

-----  
Date: Wed, 06 Sep 2000 12:33:27 -0700  
From: Michael Melland <badger@vbe.com>  
To: qrp-l@lehigh.edu  
Subject: [78893] OT: Equipment Covers ?  
Message-ID: <39B69C06.5B1896B5@vbe.com>  
MIME-version: 1.0  
Content-type: text/plain; charset=us-ascii  
Content-transfer-encoding: 7bit

I know it's not exactly qrp.... but I figure someone here would know  
who the company is that makes protective covers for radio equipment  
(plastic or clear vinyl I think ?).... I think I saw an ad in QST  
once..... I think they will mfg custom covers too.

73 de Mike, W9WIS

-----  
Date: Wed, 6 Sep 2000 13:39:40 -0400  
From: "Hare, Ed, W1RFI" <w1rfi@arrl.org>  
To: "'hanskap@kaper-1.tmfweb.nl'" <hanskap@kaper-1.tmfweb.nl>, Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>  
Subject: [78894] RE: Websites for simple equipment (homebrew)  
Message-ID: <125490A005E3D3118C9C00805FC743CCB2C491@mail.arrl.org>  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="iso-8859-1"

See <http://www.arrl.org/tis/info/qxphome.html> and  
<http://www.arrl.org/tis/info/bldgeqp.html> for some projects.

There are a number of people who sell kits, too. See  
<http://www.arrl.org/tis/tisfind.html> and look for kits.

I am sure you will get lots of other ideas and URLs. :-)

73,  
Ed Hare, W1RFI

> -----Original Message-----  
> From: Hans Kaper [mailto:hanskap@kaper-1.tmfweb.nl]  
> Sent: Wednesday, September 06, 2000 1:24 PM  
> To: Low Power Amateur Radio Discussion  
> Subject: Websites for simple equipment (homebrew)  
>  
>  
> Hello everybody,  
> Encouraged by some of you guys, I plan to give it a try  
> again; homebrewing.  
> Is there somebody who can advise me on where to find websites  
> which have  
> plans and descriptions of simple homebrew stuff?  
> As a member of BQC (Benelux QRP Club) I have already plans for Pixie  
> transceiver and for a simple CW transceiver for different HF  
> bands. Maybe  
> there is something in the order of 1 or 2 watts output? (I  
> think a Pixie has  
> an output of 300 mW max.)  
> For those who advised me earlier: I discovered 30 meters!  
> Last 2 weeks got 3  
> new entities. Indeed it pays to operate and to practice that  
> although you



> don't work new countries all the time. I discovered 30 meters  
> because I  
> installed a wire loop which can be tuned to almost any band.  
> Before I used  
> resonant dipoles for 40, 20, 15 and 10 meters.  
> Hope my English makes sense. (I do not say that to act  
> modest, I am a bit  
> lazy: I don't use a dictionary all the time.)  
> CU,  
> Hans PA3HGM  
>

-----  
Date: Wed, 6 Sep 2000 13:41:57 -0400  
From: "Hare, Ed, W1RFI" <w1rfi@arrl.org>  
To: "'badger@vbe.com'" <badger@vbe.com>, Low Power Amateur Radio Discussion <qrp-  
l@Lehigh.EDU>  
Subject: [78895] RE: Equipment Covers ?  
Message-ID: <125490A005E3D3118C9C00805FC743CCB2C492@mail.arrl.org>  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="iso-8859-1"

Go to <http://www.arrl.org/tis/tisfind.html> and type in PROTECTIVE COVER as  
the search criteria.

or to be lazy, go to:

<http://www.arrl.org/cgi-bin/tisfind?case=on&patt=MISCELLANEOUS%3ePROTECTIVE+COVER>

73,  
Ed Hare, W1RFI

> -----Original Message-----  
> From: Michael Melland [mailto:badger@vbe.com]  
> Sent: Wednesday, September 06, 2000 3:33 PM  
> To: Low Power Amateur Radio Discussion  
> Subject: OT: Equipment Covers ?  
>  
>  
> I know it's not exactly qrp.... but I figure someone here would know  
> who the company is that makes protective covers for radio equipment  
> (plastic or clear vinyl I think ?).... I think I saw an ad in QST  
> once..... I think they will mfg custom covers too.  
>  
> 73 de Mike, W9WIS

>

-----  
Date: Wed, 6 Sep 2000 13:03:32 -0500  
From: "Kanalz, Karl" <Karl.Kanalz@allegiancetelecom.com>  
To: "'badger@vbe.com'" <badger@vbe.com>, Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>  
Subject: [78896] RE: Equipment Covers ?  
Message-ID: <E78D8A9D6762D411B5440008C791D4AA199A88@dfwex03.allegiancetelecom.com>  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="iso-8859-1"

If I were you, Mike, I'd check the local "Penny Saver" ads or even the Yellow Pages to find a seamstress that does "custom" work. Come to think of it, even an automotive re-upholstery shop could do the job:

Have the sewing machine genius make you a custom cover from heavyweight fabric, with or without pattern on it. You can, of course, choose the color of your choice and if you have the upholstery shop do it, you could have it made of naugahyde (well, you gotta' sacrifice \*some\* "naugas" in the process!) in a variety of colors.

I'll bet it will cost you less than that commercial cover company!

Karl K - W8TIF  
McKinney, Texas

-----Original Message-----  
From: Michael Melland [SMTP:badger@vbe.com]  
Sent: Wednesday, September 06, 2000 2:33 PM  
To: Low Power Amateur Radio Discussion  
Subject: OT: Equipment Covers ?

I know it's not exactly qrp.... but I figure someone here would know who the company is that makes protective covers for radio equipment (plastic or clear vinyl I think ?).... I think I saw an ad in QST once..... I think they will mfg custom covers too.

73 de Mike, W9WIS

-----  
Date: Wed, 06 Sep 2000 11:51:16 -0700  
From: Jeff Dairiki <dairiki@dairiki.org>  
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>  
Subject: [78897] Stupid question...

Message-ID: <200009061851.LAA01084@matthews.dairiki.org>

Mime-Version: 1.0

Content-Type: text/plain; charset=us-ascii

I'm en-boxing my first QRP rig (a SW-40+).

I have a 2.1/5.5mm coaxial ("barrel") connector which I plan on using for the (12 volt) power connection. (I think this is pretty standard.)

The question is: is there any sort of standard for the polarity of this sort of plug?

One (at least I) would think the center should be positive, so that the exposed outside part of the barrel connector is connected to the negative (usually ground) side of the battery. However, the cigar lighter adapter for my Yeasu HT is wired the other way.

Tnx & 72,  
Jeff, KI6MO

-----  
Date: Wed, 6 Sep 2000 15:02:09 -0400

From: "Mike Yetsko" <myetsko@insydesw.com>

To: <dairiki@dairiki.org>, "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>

Subject: [78898] Re: Stupid question...

Message-ID: <000b01c01834\$f8867020\$2101a8c0@insydesw.com>

MIME-Version: 1.0

Content-Type: text/plain;  
charset="iso-8859-1"

Content-Transfer-Encoding: 7bit

The question isn't stupid. Hooking it up the wrong way without asking is!

USUALLY the tip is +, but NOT always. (Hey, laptops are the same way!)

If you have multiple rigs where the cord might get swapped, SERIOUSLY consider opening the rigs up and putting a series diode in EACH rig so that it won't work if it's hooked up backwards and does no damage.

Some peeples suggest changing the jacks, but then that can be a pain if you ever run into others with the same rig, or send it back.

Mike

> I'm en-boxing my first QRP rig (a SW-40+).  
>  
> I have a 2.1/5.5mm coaxial ("barrel") connector which I plan on using  
for the  
> (12 volt) power connection. (I think this is pretty standard.)  
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> sort of plug?  
>  
> One (at least I) would think the center should be positive, so that  
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> exposed outside part of the barrel connector is connected to the  
negative  
> (usually ground) side of the battery. However, the cigar lighter  
adapter  
> for my Yeasu HT is wired the other way.  
>  
> Tnx & 72,  
> Jeff, KI6MO  
>  
>  
>

-----  
Date: Wed, 6 Sep 2000 14:05:49 -0500  
From: "Kevin Muenzler, WB5RUE" <wb5rue@arrl.net>  
To: "'Low Power Amateur Radio Discussion'" <qrp-1@Lehigh.EDU>  
Subject: [78899] RE: Stupid question...  
Message-ID: <000001c01835\$78968e80\$ef5d6f81@v8.uthscsa.edu>  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

First off a correction -- THERE ARE NO STUPID QUESTIONS!

For all my applications I use the outside as negative and the center as  
positive. This is, as you state, so that you won't short something out if  
you are using it in a vehicle and touch something metal by accident. I  
don't know if this is the "standard" but it works for me. I also have  
things that are wired each way.

Kevin, WB5RUE  
Leeniers? We dunt need no steekeeng leeniers!

> -----Original Message-----  
> From: owner-qrp-1@Lehigh.EDU  
> [mailto:owner-qrp-1@Lehigh.EDU]On Behalf Of  
> Jeff Dairiki  
> Sent: Wednesday, September 06, 2000 1:51 PM  
> To: Low Power Amateur Radio Discussion  
> Subject: Stupid question...  
>  
>  
> I'm en-boxing my first QRP rig (a SW-40+).  
>  
> I have a 2.1/5.5mm coaxial ("barrel") connector which I plan  
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>  
> One (at least I) would think the center should be positive,  
> so that the  
> exposed outside part of the barrel connector is connected to  
> the negative  
> (usually ground) side of the battery. However, the cigar  
> lighter adapter  
> for my Yeasu HT is wired the other way.  
>  
> Tnx & 72,  
> Jeff, KI6MO  
>  
>  
>

-----  
Date: Wed, 6 Sep 2000 14:15:16 -0500  
From: "Kevin Muenzler, WB5RUE" <wb5rue@arrl.net>  
To: "'Low Power Amateur Radio Discussion'" <qrp-1@Lehigh.EDU>  
Subject: [78900] RE: Stupid question...  
Message-ID: <000001c01836\$ca89c120\$ef5d6f81@v8.uthscsa.edu>  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

Good idea Mike. Remember that 0.6v drop, but it shouldn't be significant.  
I suppose it's better than putting the diode across the connection and

blowing the fuse every time you connect it up wrong. I don't think that I would want to physically modify the connector because of what you said about having to send something back for repairs. Make a nice, neat solder connection that can be un-done easily. A shunt diode connection would probably lead to a neater unsolder job than putting one in series. Just a thought.

72/73

Kevin, WB5RUE

> -----Original Message-----

> From: owner-qrp-1@Lehigh.EDU

> [mailto:owner-qrp-1@Lehigh.EDU]On Behalf Of

> Mike Yetsko

> Sent: Wednesday, September 06, 2000 2:02 PM

> To: Low Power Amateur Radio Discussion

> Subject: Re: Stupid question...

>

>

> The question isn't stupid. Hooking it up the wrong way without asking is!

>

> USUALLY the tip is +, but NOT always. (Hey, laptops are the same way!)

>

> If you have multiple rigs where the cord might get swapped, SERIOUSLY consider opening the rigs up and putting a series diode in EACH rig so that it won't work if it's hooked up backwards and does no damage.

>

> Some people suggest changing the jacks, but then that can be a pain if you ever run into others with the same rig, or send it back.

>

> Mike

-----

Date: Wed, 6 Sep 2000 15:26:29 -0400

From: "Mike Yetsko" <myetsko@insydesw.com>

To: <wb5rue@arrl.net>, "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>

Subject: [78901] Re: Stupid question...

Message-ID: <002301c01838\$5f427540\$2101a8c0@insydesw.com>

MIME-Version: 1.0

Content-Type: text/plain;  
charset="iso-8859-1"

Content-Transfer-Encoding: 7bit

A shunt is always easier to add, BUT, I would NEVER install a shunt diode unless there was also room in there for a fusible link of some

kind. And if that link is a fuse, why not just put the series diode?

Mike

> Good idea Mike. Remember that 0.6v drop, but it shouldn't be significant.  
> I suppose it's better than putting the diode across the connection and blowing the fuse every time you connect it up wrong. I don't think that I  
> would want to physically modify the connector because of what you said about  
> having to send something back for repairs. Make a nice, neat solder connection that can be un-done easily. A shunt diode connection would probably lead to a neater unsolder job than putting one in series.  
Just a  
> thought.

>

> 72/73

> Kevin, WB5RUE

>

> > -----Original Message-----

> > From: owner-qrp-1@Lehigh.EDU

> > [mailto:owner-qrp-1@Lehigh.EDU]On Behalf Of

> > Mike Yetsko

> > Sent: Wednesday, September 06, 2000 2:02 PM

> > To: Low Power Amateur Radio Discussion

> > Subject: Re: Stupid question...

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> >

> > Mike

>

>

-----  
Date: Wed, 06 Sep 2000 12:32:50 -0700  
From: Jeff Dairiki <dairiki@dairiki.org>  
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>  
Cc: wb5rue@arrl, net@matthews.dairiki.org, M Goins <mgoins@usa.net>, "Steve Sorrell" <ap036@detroit.freenet.org>, "Mike Yetsko" <myetsko@insydesw.com>, Bruce Muscolino <w6toy@erols.com>, brian@iquest.net  
Subject: [78902] Re: Stupid question...  
Message-ID: <200009061932.MAA01461@matthews.dairiki.org>  
Mime-Version: 1.0  
Content-Type: text/plain; charset=us-ascii

Thank you Kevin, Mike, Steve, Mike, Bruce and Brian.

Wow, that was a quick answer (or six quick answers.)

It's unanimous that center positive is the "right" (though not universal) answer.

The SW-40+ comes stock with a series protection diode. I'm going to ohm-out/open-up my Yaesu DC adapter to see if it's got one.

Tnx es 72 de KI6MO,  
Jeff

In message <000001c01835\$78968e80\$ef5d6f81@v8.uthscsa.edu>,"Kevin Muenzler, WB5 RUE" writes:

>First off a correction -- THERE ARE NO STUPID QUESTIONS!

>

>For all my applications I use the outside as negative and the center as  
>positive. This is, as you state, so that you won't short something out if  
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>

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>> From: owner-qrp-l@Lehigh.EDU

>> [mailto:owner-qrp-l@Lehigh.EDU]On Behalf Of

>> Jeff Dairiki

>> Sent: Wednesday, September 06, 2000 1:51 PM

>> To: Low Power Amateur Radio Discussion



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>>  
>> Tnx & 72,  
>> Jeff, KI6MO  
>>  
>>  
>>  
>

-----  
Date: Wed, 6 Sep 2000 15:30:15 -0400  
From: "Mike Yetsko" <myetsko@insydesw.com>  
To: <wb5rue@arrl.net>, "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>  
Subject: [78903] Re: Stupid question...  
Message-ID: <002b01c01838\$f36fcec0\$2101a8c0@insydesw.com>  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

And... As has been pointed out by others, a Shotkey diode has less than the old standard of .7v drop.

But check the rigs first, as some may have diode protection already.

Although if you DO find a shunt diode in there, nothing really prevents you from putting a series diode right at the entry.

Mike

-----  
Date: Wed, 6 Sep 2000 13:42:24 -0600  
From: "Marshall Emm" <mgemm@mtechnologies.com>  
To: Qrp-l@lehigh.edu  
Subject: [78904] FOX: Final Log for N1FN, Hunt #19, 9/3/00  
Message-ID: <39B649C0.19622.676D8B@localhost>  
MIME-Version: 1.0  
Content-type: text/plain; charset=US-ASCII  
Content-transfer-encoding: 7BIT

Here's the final log, and it is kind of sad to think that it is the Final final log for the QRP-L Summer 20M Fox Hunt!

It was a gas, and I'm looking forward to the Winter Fox Hunt, which will be upon us before you know it.

The processing of final results will probably take place this evening, and the announcement of awards should follow shortly.

73  
Marshall (ET)  
N1FN

-----  
QRP-L Summer 20M Fox Hunt Log  
Hunt Number 19, 2000-2259Z 3SEP00  
Fox: N1FN, ET, Aurora CO  
Rig: OHR500  
Ant: Gap Titan vertical, 40M doublet

| TIME(Z) | STATION | RST | SPC | NAME  | NUM/PWR |
|---------|---------|-----|-----|-------|---------|
| 2000    | K0EVZ   | 559 | ND  | DOC   | 861     |
| 2001    | K1QM    | 559 | MA  | JOEL  | 337     |
| 2001    | KB7WW   | 559 | OR  | ART   | 290     |
| 2002    | NW7DX   | 599 | WA  | BEN   | 1892    |
| 2003    | WA9PWP  | 579 | WI  | PAUL  | 129     |
| 2003    | K5DI    | 579 | NM  | KARL  | 2195    |
| 2003    | KA1DDB  | 559 | MI  | MIKE  | 2064    |
| 2004    | K5AAR   | 559 | OK  | DON   | 1512    |
| 2005    | VE7SL   | 579 | BC  | STEVE | 769     |

|      |        |     |    |         |      |
|------|--------|-----|----|---------|------|
| 2005 | NQ7X   | 559 | AZ | FLOYD   | 343  |
| 2006 | VE5RC  | 559 | SK | BRUCE   | 886  |
| 2007 | VE5VA  | 559 | SK | PETE    | 46   |
| 2007 | N5ZE   | 559 | TX | LEW     | 2178 |
| 2008 | AB0CD  | 559 | CO | DICK    | 483  |
| 2009 | N5TW   | 559 | TX | TOM     | 1474 |
| 2009 | WA7SPY | 559 | CA | GLENN   | 2214 |
| 2010 | K5JHP  | 559 | TX | BILL    | 825  |
| 2011 | K5ZTY  | 559 | TX | BILL    | 173  |
| 2012 | AA5UN  | 559 | TX | MARTY   | 5W   |
| 2012 | W5YR   | 559 | TX | GEO     | 1373 |
| 2013 | KC1FB  | 559 | CT | JIM     | 29   |
| 2013 | NK6A   | 559 | CA | DON     | 1517 |
| 2014 | VA6RF  | 579 | AB | EARL    | 1076 |
| 2015 | K5OI   | 559 | NM | TIM     | 73   |
| 2016 | N9SE   | 559 | IN | MARTY   | 5W   |
| 2016 | N6WG   | 559 | CA | BOB     | 26   |
| 2017 | W7ZOI  | 559 | OR | WES     | 4W   |
| 2018 | N7XY   | 569 | WA | BOB     | 1985 |
| 2019 | NK7M   | 579 | AZ | BOB     | 271  |
| 2020 | KG4BIG | 559 | KY | KEN     | 1974 |
| 2020 | AE9F   | 559 | CA | DAN     | 5W   |
| 2020 | N6NU   | 559 | CA | ANDY    | 5W   |
| 2021 | K9IUA  | 559 | ND | KEVIN   | 384  |
| 2022 | AF4LQ  | 559 | KY | MIKE    | 1395 |
| 2023 | K7TQ   | 559 | ID | RANDY   | 102  |
| 2023 | KB1ENS | 559 | VT | JOHN    | 2150 |
| 2024 | W7MD   | 559 | AZ | DAMON   | 2190 |
| 2024 | W7ILW  | 559 | AZ | HOWARD  | 2010 |
| 2025 | W0CH   | 559 | MO | DAVE    | 618  |
| 2026 | K8CV   | 559 | MI | WALT    | 935  |
| 2027 | K6VNX  | 579 | CA | ARLEN   | 5W   |
| 2027 | W2RBA  | 559 | NY | JOE     | 4W   |
| 2030 | K5LN   | 559 | TX | BILL    | 1794 |
| 2030 | W4NJK  | 559 | CA | CHARLIE | 2075 |
| 2031 | K0FRP  | 559 | CO | AL      | 366  |
| 2031 | WJ1R   | 559 | CO | LARRY   | 2137 |
| 2032 | AA7EQ  | 559 | AZ | BOB     | 2186 |
| 2034 | AF5Z   | 559 | TX | BOB     | 984  |
| 2039 | KD5CMN | 559 | TX | MIKE    | 1328 |
| 2040 | N4ROA  | 559 | NC | DAN     | 970  |
| 2040 | WB0JNR | 559 | CO | ROGER   | 1W   |
| 2042 | AG0T   | 559 | ND | TODD    | 2211 |
| 2043 | KK7GG  | 559 | OR | MIKE    | 1705 |
| 2047 | KB5MHS | 449 | TX | DAVE    | 2176 |
| 2048 | N5GLQ  | 559 | LA | MIKE    | 5W   |
| 2050 | WA4QDM | 559 | VA | JOHN    | 5W   |
| 2050 | AA2MT  | 539 | NY | CONNIE  | 5W   |

|      |        |     |    |        |      |      |
|------|--------|-----|----|--------|------|------|
| 2054 | AJ4Y   | 559 | FL | PAUL   | 1795 |      |
| 2057 | KA8LLE | 559 | OH | BEN    | 3W   |      |
| 2105 | N7CEE  | 559 | AZ | BRUCE  |      | 1692 |
| 2105 | N5IW   | 559 | TX | DAVE   | 1718 |      |
| 2108 | KB3CRT | 559 | PA | ROB    | 5W   |      |
| 2110 | WS4S   | 559 | TN | CONARD | 993  |      |
| 2110 | W1HUE  | 559 | ID | LARRY  |      | 228  |
| 2112 | KA4LBD | 559 | TN | LOUIS  |      | 100W |
| 2113 | KC7TUP | 559 | ID | DICK   | 5W   |      |
| 2114 | N0UR   | 559 | MN | JIM    | 799  |      |
| 2116 | N1TP   | 559 | FL | TOM    | 1317 |      |
| 2116 | NV4V   | 339 | KY | PETE   | 1721 |      |
| 2117 | KW3U   | 339 | PA | JIM    | 690  |      |
| 2123 | W0HEP  | 559 | CO | RICH   | 5W   |      |
| 2124 | AF4PS  | 559 | FL | MAC    | 704  |      |
| 2124 | W0CQC  | 559 | CO | RICH   | 5W   |      |
| 2125 | W2XN   | 559 | FL | FRED   | 1728 |      |
| 2126 | W3BB0  | 339 | PA | BOB    | 5W   |      |
| 2132 | W0CP   | 559 | CO | WALT   | 5W   |      |
| 2133 | K5QLF  | 559 | TX | FRED   | 5W   |      |
| 2137 | NR0NR  | 559 | CO | GENO   | 5W   |      |
| 2140 | K5UP   | 559 | OK | GLEN   | 21   |      |
| 2141 | N7CQR  | 559 | OR | DAN    | 502  |      |
| 2142 | W6BAB  | 559 | CA | HARVEY |      | 5W   |
| 2143 | N10DL  | 339 | MA | ARON   | 1326 |      |
| 2145 | AJ4AY  | 559 | AL | JAY    | 1372 |      |
| 2146 | N3WT   | 559 | MD | JOHN   | 4W   |      |
| 2148 | W0JOE  | 559 | MO | JOE    | 1901 |      |
| 2149 | W0HEM  | 559 | CO | ELAINE |      | 5W   |
| 2151 | W2ZGB  | 559 | CO | GABE   | 221  |      |
| 2153 | NA1XX  | 559 | MA | MIKE   | 1588 |      |
| 2154 | W4EN   | 559 | NJ | ED     | 2216 |      |
| 2156 | NK9G   | 559 | WI | RICK   |      | 2061 |
| 2159 | AE2T   | 559 | NY | AL     | 1664 |      |
| 2200 | N1FN   | 559 | CO | FOX    | 9999 |      |

-----

Marshall Emm, N1FN  
Milestone Technologies, Inc.  
(303) 752-3382  
<http://www.mtechnologies.com>

-----

Date: Wed, 6 Sep 2000 15:48:25 -0400  
From: "Larry Acklin" <larrya@compu-fixinc.com>  
To: <myetsko@insydesw.com>, "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>

Subject: [78905] Re: Stupid question...  
Message-ID: <000d01c0183b\$6b9c0ce0\$0400a8c0@larrya>  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

Back in the bad old days of CB ('77), I fixed 'em. I once saw a trucker's rig that had a full wave bridge (about 20 AMP) wired to the DC in. The trucker felt better swapping the rig into unknown trucks. (some of which had positive grounds). Yea I know, 1.4V drop, but anyway he never cooked his CB.

Larry  
KB3CUF

----- Original Message -----

From: "Mike Yetsko" <myetsko@insydesw.com>  
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>  
Sent: Wednesday, September 06, 2000 3:26 PM  
Subject: Re: Stupid question...

> A shunt is always easier to add, BUT, I would NEVER install a shunt  
> diode unless there was also room in there for a fusible link of some  
> kind. And if that link is a fuse, why not just put the series diode?  
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> Mike  
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> > Good idea Mike. Remember that 0.6v drop, but it shouldn't be  
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> > thought.  
> >  
> > 72/73  
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> >  
> > > -----Original Message-----  
> > > From: owner-qrp-l@Lehigh.EDU  
> > > [mailto:owner-qrp-l@Lehigh.EDU]On Behalf Of  
> > > Mike Yetsko

> > > Sent: Wednesday, September 06, 2000 2:02 PM  
> > > To: Low Power Amateur Radio Discussion  
> > > Subject: Re: Stupid question...  
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> > >  
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> > >  
> > > Mike  
> >  
> >  
>  
>

-----  
Date: 6 Sep 00 14:48:57 EST  
From: M Goins <mgoins@usa.net>  
To: qrp-l@LeHigh.EDU  
Subject: [78906] CQ Mike Brice  
Message-ID: <20000906194857.1537.qmail@awcst094.netaddress.usa.net>  
Mime-Version: 1.0  
Content-Type: text/plain; charset=US-ASCII  
Content-Transfer-Encoding: quoted-printable

Sorry for the bandwidth but I need to contact Mike Bryce, WB8VGE regarding=  
the  
contest this weekend.

mike  
wb5yjx

-----

Get free email and a permanent address at <http://www.amexmail.com/?A=3D1>

-----  
Date: Wed, 06 Sep 2000 16:02:03 -0500  
From: "Randy Randall" <RANDALLR@Healthall.com>  
To: <qrp-1@Lehigh.EDU>  
Subject: [78907] Re: Stupid question...  
Message-ID: <s9b66a8d.058@healthall.com>  
Mime-Version: 1.0  
Content-Type: text/plain; charset=US-ASCII  
Content-Transfer-Encoding: quoted-printable  
Content-Disposition: inline

Seen them both ways. I have a 12 V 5" TV that is wired center NEGATIVE! =  
STUPID!!!!!! The funny or sad thing is it was designed for a car?! =  
What would be neat is one of those little PTC self resetting circuit =  
breakers instead of a fuse. After you removed the reverse polarity and =  
let it cool for a while, your back in business! No extra fuse at the top =  
of some mountain is a sure fire bummer!=20  
73,  
Randy.

>>> Jeff Dairiki <dairiki@dairiki.org> 09/06 1:51 PM >>>  
I'm en-boxing my first QRP rig (a SW-40+).

I have a 2.1/5.5mm coaxial ("barrel") connector which I plan on using for =  
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The question is: is there any sort of standard for the polarity of this  
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exposed outside part of the barrel connector is connected to the negative  
(usually ground) side of the battery. However, the cigar lighter adapter  
for my Yeasu HT is wired the other way.

Tnx & 72,  
Jeff, KI6MO

-----  
Date: Wed, 6 Sep 2000 16:02:44 -0400 (EDT)  
From: n2go@arrl.net

To: qrp-1@Lehigh.EDU  
Subject: [78908] n4uau scf '95 HB?  
Message-ID: <Pine.LNX.4.20.0009061600350.1231-100000@valhalla.v>  
MIME-Version: 1.0  
Content-Type: TEXT/PLAIN; charset=US-ASCII

What chip was used in the digital active audio filter mentioned in  
qst 1992 and ARRL HB '95 FIG 16.69 ?

73,

Jim n2go

-----  
Date: Wed, 6 Sep 2000 16:05:33 -0400  
From: Bill Coleman AA4LR <aa4lr@radio.org>  
To: <joe@joesmith.net>, "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>  
Subject: [78909] Re: HomeMade ladder line  
Message-ID: <1000806160533.QAB08800@gate.iterated.com>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="US-ASCII"

On 9/5/00 10:49 PM, Joe Smith at joe@joesmith.net wrote:

>I am going to build my own ladder line. 600 ohm is my preference.  
>Anyone have any good references and/or ideas?

The subject of constructing insulators for open wire line was discussed  
on TowerTalk. Check out these summaries:

<[http://lists.contesting.com/\\_towertalk/200005/msg00064.html](http://lists.contesting.com/_towertalk/200005/msg00064.html)>  
<[http://lists.contesting.com/\\_towertalk/200005/msg00276.html](http://lists.contesting.com/_towertalk/200005/msg00276.html)>

You can also check out the archives for April and May 2000 to see some of  
the discussion surrounding these suggestions.  
<[http://lists.contesting.com/\\_towertalk](http://lists.contesting.com/_towertalk)>

Bill Coleman, AA4LR, PP-ASEL                      Mail: aa4lr@radio.org  
Quote: "Boot, you transistorized tormentor! Boot!"  
      -- Archibald Asparagus, VeggieTales

-----  
Date: Wed, 6 Sep 2000 16:12:51 -0400



From: "Mike Yetsko" <myetsko@insydesw.com>  
To: "Larry Acklin" <larrya@compu-fixinc.com>, "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>  
Subject: [78910] Re: Stupid question...  
Message-ID: <006701c0183f\$0ea56320\$2101a8c0@insydesw.com>  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

It's funny you should mention that... Back in 76-78 I ran a Radio Shack in Mill Hall PA. I had one guy get a CB from me (actually his wife bought it for him as a Christmas gift) and he had to return it. He was a long haul trucker and his tractor was positive ground. So he traded it for a model that would go both ways.

Well, he burned it up three times, swapping it car to truck to other truck. The first time it lifted a trace, which I repaired by taking speaker wire and using a single strand. When he toasted that, I hid a fuse inside the rig. The third time (just the blown hidden fuse) I asked what was going on, and when he told me, I put a FWB in the unit and hard-attached a cigar-lighter plug with fuse in line. It never came back again.

But his friends did. They wanted their rigs modified. I did what I could. And rigs that couldn't be modified (wouldn't work on positive ground, I got those as I was now the 'power wizard') I usually got them to buy another rig that WOULD handle the FWB.

I think I did maybe 50 or more sets with the bridge in them. I don't think I put anything THAT big and heavy in a rig though. But then, I was doing so many for a short time my parts wall ran out of the bridges I was using and I had to use what I could, even make bridges up from loose diodes.

Mike

> Back in the bad old days of CB ('77), I fixed 'em. I once saw a trucker's  
> rig that had a full wave bridge (about 20 AMP) wired to the DC in. The  
> trucker felt better swapping the rig into unknown trucks. (some of

which had  
> positive grounds). Yea I know, 1.4V drop, but anyway he never cooked  
his  
> CB.  
>  
> Larry  
> KB3CUF

-----  
Date: Tue, 05 Sep 2000 20:10:11 -0400  
From: Bob Kellogg <ae4ic@nr.infi.net>  
To: k5di@zianet.com  
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>  
Subject: [78911] Re: AT-11 measured loss  
Message-ID: <39B58B63.E5EE2700@nr.infi.net>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

Karl,

The test you ran on the AT-11 is a kind of "Quick and Dirty" test which gives an indication of what the tuner is doing. I've done the same test when I wanted to find out if a tuner was "alive or dead".

But, it should be remembered that the test is performed at 50 ohm impedance, a situation where you would not normally use it. (If your antenna was near 50 ohms, you wouldn't use a tuner at all)

All the tuners I've checked perform \*best\* at 50 ohms. Some that lost only 5% at 50 ohms lost 60% or more at 400 ohms or at 6.25 ohms. Some tuners won't even match certain Frequency/Impedance situations. Sometimes they indicate 1.0:1 match while losing over 90% of the signal.

With a multiband antenna, and a tuner that loses 10% at 50 ohms, I'd guess that the average loss over a range of frequencies would be at least 30% to 40%. That's a guess of course, and not meant to be critical of either the tuner or the test method.

While the those percentages seem high, it's decibels that indicate signal loss best. We're only talking about a few decibels, maybe 1 S-Meter mark.

OTOH, when you're QRP..... Why lose anything if you can prevent it?

: -)

--

73,

Bob Kellogg, AE4IC, Greensboro, NC  
Prolobly, not nececelery. - Benny Hill

-----  
Date: Wed, 6 Sep 2000 16:23:57 -0400  
From: Bill Coleman AA4LR <aa4lr@radio.org>  
To: <wd9eka@arrl.net>, "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>  
Subject: [78912] Re: R-7000 Vertical or Dipole  
Message-ID: <1000806162356.QAA09893@gate.iterated.com>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="US-ASCII"

On 9/6/00 1:27 PM, bob evinger at wd9eka@arrl.net wrote:

>So a 40 dipole at approx 40 foot can work DX. Can't say if that extra 10  
>foot or the slight slope would make that much difference or not though.

That's not what I said. I never said that a low dipole can't work DX.  
It's just not great for DX. For the record, I worked TM2Y on 75m SSB  
using an 80m dipole at 15 feet. (no, that's not a typo, it was only 15  
feet high, barely)

The problem with a low (ie less than 1/2 wave above ground) dipoles is  
that the loudest signals on it are going to arrive (and depart) at high  
angles to the horizon. Signals from close-in stations usually propagate  
at these high angles, so that's no problem. But signals from far away (ie  
DX) usually come at low angles. Low dipoles have a poor pattern at low  
angles, so you won't here these DX signals as strongly as an antenna with  
a better pattern for low angles. So, the DX doesn't disappear, it's just  
not as strong as it could be.

There's two ways to solve this problem of low angle reception: raise the  
dipole, or make it (more) vertical. A vertical's angle of radiation has  
less to do with its height above ground, and more with the efficiency of  
the ground plane.

And, yes, a sloping dipole does lower the angle of radiation in the  
direction of the slope. You can think of it as a tilted-over vertical,  
too.

Bill Coleman, AA4LR, PP-ASEL                      Mail: aa4lr@radio.org  
Quote: "Boot, you transistorized tormentor! Boot!"  
-- Archibald Asparagus, VeggieTales

-----  
Date: Wed, 06 Sep 2000 13:33:01 PDT  
From: "Scott Robbins" <srobbins\_qrp@hotmail.com>  
To: qrp-1@LeHigh.EDU  
Subject: [78913] Point Roberts Expedition Bulletin!!!  
Message-ID: <F65lmFjvAwhFj3NAah600004c32@hotmail.com>  
Mime-Version: 1.0  
Content-Type: text/plain; format=flowed

Notice of Expedition to Point Roberts, USA!!

The Delta Amateur Radio Society of Delta, British Columbia, Canada will be on an Expedition to Point Roberts USA on September 16, 2000. Point Roberts is unique in that the only way for someone to access this part of the US (via surface travel coming from the continental US) is by boat or by vehicle through Canada. Point Roberts is on a peninsula located in northwest Washington state (just south of Vancouver, BC, Canada) (grid square CN88lx).

For anyone wanting to work this unique location, the club will be stationed there from 16:00-24:00 GMT (or later) (or 9am-5pm (or later) Pacific Time) on Saturday, September 16.

We will be on 10m-40m (possibly 80m as well) operating under the club call sign VE7SUN/W7. We will be calling "Point Roberts Expedition" when calling CQ on SSB and "CQ PRE" on CW. Look for us near the CW/SSB QRP calling frequencies.

QSL cards can be sent direct to the club at:

Delta Amateur Radio Society  
6062 - 16th Avenue  
Delta, BC  
V4L 1H6  
Canada

Please enclose SASE for return QSL card!  
We hope to hear you on the air!

72/73,

Scott Robbins - VE7CCY  
Delta Amateur Radio Society

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Get Your Private, Free E-mail from MSN Hotmail at <http://www.hotmail.com>.

Share information about yourself, create your own public profile at  
<http://profiles.msn.com>.

-----  
Date: Wed, 6 Sep 2000 16:40:13 -0400  
From: Bill Coleman AA4LR <aa4lr@radio.org>  
To: <jamesd1@flash.net>, "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>  
Subject: [78914] Re: NA Sprint  
Message-ID: <1000806164013.QAA10990@gate.iterated.com>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="US-ASCII"

On 9/5/00 8:04 PM, James R. Duffey at jamesd1@flash.net wrote:

>None the less, if you want a taste of real contesting, which requires some  
>real thought rather than just sitting and calling CQ, the NA Sprint is for  
>you.

While the NA Sprint is fun, fast and furious, you should be aware that  
most participants are QRO, or as QRO as they can get. It's hard enough  
doing the sprint with 100 watts, but with QRP, it can be really  
frustrating.

The NA QSO Party, which occurs in August and January, is a much better  
equalizer, since all participants must run 100 watts or less. Better  
chance for the QRP ops.

Bill Coleman, AA4LR, PP-ASEL                      Mail: aa4lr@radio.org  
Quote: "Boot, you transistorized tormentor! Boot!"  
      -- Archibald Asparagus, VeggieTales

-----  
Date: Sat, 2 Sep 2000 14:17:36 +0200

From: "Ralf K. Buschner" <r\_buschner@knuut.de>  
To: w0yse@juno.com, "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>  
Subject: [78915] Re: Pocket ATU  
Message-ID: <00090214173600.01340@dl5mhh>  
Content-Type: text/plain  
MIME-Version: 1.0  
Content-Transfer-Encoding: 8bit

Hi,

better late than never...

> A neat article about a pocket ATU in the July QRP Quarterly By  
> DL2AVH. He uses a 6 to 100 pF variable and a BCD switch to add in  
> more capacitance to tune a wire longer than "0,28 Lambda" (0.28 wave  
> length) to resonance. The thing that puzzles me is why the 0.28 and  
> not 0.25 wl. Where did he get the 0.28wl??

The reason for the 0.28 wl is, that a wire with this length has a real part of his impedance, which is 50 Ohms, and it has a inductive imaginary part, which is compensated to zero with the capacitors in line with the wire. If this is done, the remaining impedance is the real part of 50 ohms...

I hope, you can understand my words...my english is not that good, hi.

cu, Ralf, dl5mhh

--

> Ist nicht jeder Computer-User irgendwie ein Masochist?  
Nein, der Windows-Nutzer wird zum Masochisten, hatte das aber eigentlich nicht vor. Der echte Masochist greift gleich zu Linux.  
(Alexander Kluge in dcouln)

-----  
Date: Wed, 6 Sep 2000 15:47:58 -0500  
From: "Kevin Muenzler, WB5RUE" <wb5rue@arrl.net>  
To: "'Low Power Amateur Radio Discussion'" <qrp-1@Lehigh.EDU>  
Subject: [78916] RE: Stupid question...  
Message-ID: <000001c01843\$be0b9740\$ef5d6f81@v8.uthscsa.edu>  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="iso-8859-1"

Content-Transfer-Encoding: 7bit

I was assuming (yes I know this is not good) that the power connector/adaptor/supply/battery had some sort of fuse in it.

> -----Original Message-----

> From: Mike Yetsko [mailto:myetsko@insydesw.com]

> Sent: Wednesday, September 06, 2000 2:26 PM

> To: wb5rue@arrl.net; Low Power Amateur Radio Discussion

> Subject: Re: Stupid question...

>

>

> A shunt is always easier to add, BUT, I would NEVER install a shunt diode unless there was also room in there for a fusible link of some kind. And if that link is a fuse, why not just put the series diode?

>

> Mike

>

> > Good idea Mike. Remember that 0.6v drop, but it shouldn't be significant.

> > I suppose it's better than putting the diode across the connection and

> > blowing the fuse every time you connect it up wrong. I don't think that I

> > would want to physically modify the connector because of what you said about

> > having to send something back for repairs. Make a nice, neat solder connection that can be un-done easily. A shunt diode connection would

> > probably lead to a neater unsolder job than putting one in series.

> Just a

> > thought.

> >

> > 72/73

> > Kevin, WB5RUE

> >

> > > -----Original Message-----

> > > From: owner-qrp-1@Lehigh.EDU

> > > [mailto:owner-qrp-1@Lehigh.EDU]On Behalf Of

> > > Mike Yetsko

> > > Sent: Wednesday, September 06, 2000 2:02 PM

> > > To: Low Power Amateur Radio Discussion

> > > Subject: Re: Stupid question...

> > >

> > >

> > > The question isn't stupid. Hooking it up the wrong way without asking

> > > is!  
> > >  
> > > USUALLY the tip is +, but NOT always. (Hey, laptops are the same  
> way!))  
> > >  
> > > If you have multiple rigs where the cord might get swapped,  
> SERIOUSLY  
> > > consider opening the rigs up and putting a series diode  
> in EACH rig  
> > > so that it won't work if it's hooked up backwards and does no  
> damage.  
> > >  
> > > Some peeples suggest changing the jacks, but then that can  
> be a pain  
> > > if you ever run into others with the same rig, or send it back.  
> > >  
> > > Mike  
> >  
> >  
>  
>

-----  
Date: Wed, 06 Sep 2000 16:46:50 -0400  
From: Bob Kellogg <ae4ic@nr.infi.net>  
To: k5di@zianet.com  
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>  
Subject: [78917] Re: AT-11 measured loss  
Message-ID: <39B6AD3A.758D6B07@nr.infi.net>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

Karl,

There are articles in April and May, 1995 QST written by Frank Witt, AI1H, on evaluating tuners.

Frank uses a resistive method, which he claims gives similar results as complex loads. Frank, as you may know, has done extensive testing and writing on the subjects of antennas, transmission lines and baluns. I've never heard any knowledgeable individuals question his work, so until someone can prove otherwise, I'm going to assume he's right. :-)

Of course, that shouldn't keep us from experimenting!!



"Karl F. Larsen" wrote:

>

> Tell me how to do a measurement with a complex load and I will do it

> ....:-)

--

73,

Bob Kellogg, AE4IC, Greensboro, NC

Prolobly, not nececelery. - Benny Hill

-----  
Date: Wed, 06 Sep 2000 15:40:24 -0500

From: Dave Sjolín <sjolin@swbell.net>

To: aa4lr@radio.org

Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>

Subject: [78918] Re: R-7000 Vertical or Dipole

Message-ID: <39B6ABB8.1C483C20@swbell.net>

MIME-version: 1.0

Content-type: text/plain; charset=us-ascii

Content-transfer-encoding: 7bit

Bill Coleman AA4LR wrote:

>

> That's not what I said. I never said that a low dipole can't work DX.

> It's just not great for DX. For the record, I worked TM2Y on 75m SSB

> using an 80m dipole at 15 feet. (no, that's not a typo, it was only 15

> feet high, barely)

Know what you mean Bill. I once worked several europeans on 40 meters in a contest before I realized that my wire antenna had fallen down was lying on the roof of my single story home (maybe 15 feet). Also worked Tahiti on 40 meters using a Isotron sitting on my deck. In neither case were the signals all that strong.

On the other hand, with a ground mounted Butternut HF2V vertical, Europeans are normally 589-599. My experience, is that verticals do work better for low angle dx compared to low dipole or other wire antenna.

73 de Dave, N0IT

-----  
Date: Wed, 06 Sep 2000 17:32:43 -0400

From: Paul Womble <pwomble1@tampabay.rr.com>

To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>

Subject: [78919] FOX: Final Log AJ4Y

Message-ID: <39B6B7FB.892A624F@tampabay.rr.com>

MIME-Version: 1.0

Content-Type: text/plain; charset=us-ascii

Content-Transfer-Encoding: 7bit

Corrected a few typos...no callsigns changed. I was logging with NA using a QRPARCHI template...but forgot about the name in the fox exchange! Had to use the note feature and got the lines off in a couple of places. Next time the software will be ready!

Paul AJ4Y

| band | time | callsign | rst | qth | nr   | qth | name   | nr/pwr |
|------|------|----------|-----|-----|------|-----|--------|--------|
| 20CW | 2001 | KG4BIG   | 559 | FL  | 1795 | KY  | Ken    | 1974   |
| 20CW | 2002 | K5AAR    | 559 | FL  | 1795 | OK  | Don    | 1512   |
| 20CW | 2003 | KC1FB    | 559 | FL  | 1795 | CT  | Jim    | 29     |
| 20CW | 2003 | K0EVZ    | 559 | FL  | 1795 | ND  | Doc    | 861    |
| 20CW | 2005 | NV4V     | 559 | FL  | 1795 | KY  | Pete   | 1721   |
| 20CW | 2006 | N5IB     | 559 | FL  | 1795 | LA  | Jim    | 1913   |
| 20CW | 2009 | AJ4AY    | 559 | FL  | 1795 | AL  | Jay    | 2121   |
| 20CW | 2010 | AA5UN    | 559 | FL  | 1795 | TX  | Marty  | 5W     |
| 20CW | 2011 | VE5RC    | 559 | FL  | 1795 | SK  | Bruce  | 886    |
| 20CW | 2012 | K5DI     | 559 | FL  | 1795 | NM  | Karl   | 2195   |
| 20CW | 2012 | N5TW     | 559 | FL  | 1795 | TX  | Tom    | 1474   |
| 20CW | 2013 | NQ7X     | 559 | FL  | 1795 | AZ  | Floyd  | 343    |
| 20CW | 2014 | W5YW     | 559 | FL  | 1795 | LA  | Mike   | 5W     |
| 20CW | 2015 | N5ZE     | 559 | FL  | 1795 | TX  | Lew    | 2178   |
| 20CW | 2016 | W5YR     | 559 | FL  | 1795 | TX  | Geo    | 1373   |
| 20CW | 2017 | K5JHP    | 559 | FL  | 1795 | TX  | Bill   | 825    |
| 20CW | 2019 | W2XN     | 559 | FL  | 1795 | FL  | Fred   | 1728   |
| 20CW | 2020 | WD40JY   | 559 | FL  | 1795 | VA  | Jim    | 2134   |
| 20CW | 2022 | K1QM     | 559 | FL  | 1795 | MA  | Joel   | 337    |
| 20CW | 2025 | KA1DDB   | 559 | FL  | 1795 | MI  | Mike   | 2064   |
| 20CW | 2027 | WS4S     | 559 | FL  | 1795 | TN  | Conrad | 993    |
| 20CW | 2027 | AF5Z     | 559 | FL  | 1795 | TX  | Bob    | 984    |
| 20CW | 2028 | NK7M     | 559 | FL  | 1795 | AZ  | Bob    | 271    |
| 20CW | 2030 | W0CH     | 559 | FL  | 1795 | MO  | Dave   | 618    |
| 20CW | 2031 | K8CV     | 559 | FL  | 1795 | MI  | Walt   | 935    |
| 20CW | 2032 | WD5CMA   | 559 | FL  | 1795 | LA  | Gloria | 5W     |
| 20CW | 2034 | W7ILW    | 559 | FL  | 1795 | AZ  | Howard | 2010   |
| 20CW | 2035 | W2RBA    | 559 | FL  | 1795 | NJ  | Joe    | 2081   |
| 20CW | 2036 | AF4LQ    | 559 | FL  | 1795 | KY  | Mike   | 1395   |
| 20CW | 2037 | VE5VA    | 599 | FL  | 1795 | SK  | Pete   | 46     |
| 20CW | 2038 | K9IUA    | 559 | FL  | 1795 | ND  | Kevin  | 384    |

|                      |      |          |                |      |    |        |      |        |
|----------------------|------|----------|----------------|------|----|--------|------|--------|
| 20CW                 | 2041 | K6VNX    | 559 FL         | 1795 | CA | Arlen  | 5w   |        |
| 20CW                 | 2048 | VA6RF    | 559 FL         | 1795 | AB | Earl   | 1076 |        |
| 20CW                 | 2052 | N5GLQ    | 559 FL         | 1795 | LA | Dave   | 5W   |        |
| 20CW                 | 2053 | N3WT     | 559 FL         | 1795 | MD | John   | 4    |        |
| 20CW                 | 2054 | N1FN     | 559 FL         | 1795 | CO | ET     | 1212 | QSY to |
| his freq.            |      |          |                |      |    |        |      |        |
| 20CW                 | 2100 | KD5CMN   | 559 FL         | 1795 | TX | John   | 1327 |        |
| 20CW                 | 2104 | N9SE     | 559 FL         | 1795 | IN | Marty  | 1W   |        |
| 20CW                 | 2106 | WA4QDM   | 559 FL         | 1795 | VA | John   | 5W   |        |
| 20CW                 | 2107 | NK6A     | 559 FL         | 1795 | CA | Don    | 1517 |        |
| 20CW                 | 2108 | AE2T     | 559 FL         | 1795 | NY | Al     | 1664 |        |
| 20CW                 | 2113 | VE7SL    | 559 FL         | 1795 | BC | Steve  | 769  |        |
| 20CW                 | 2114 | N0RC     | 559 FL         | 1795 | CO | Rod    | 1764 |        |
| 20CW                 | 2116 | K5OI     | 559 FL         | 1795 | NM | Tim    | 73   |        |
| 20CW                 | 2117 | NU0V     | 559 FL         | 1795 | IA | John   | 274  |        |
| 20CW                 | 2120 | N0UR     | 559 FL         | 1795 | MN | Jim    | 799  |        |
| 20CW                 | 2122 | K7TQ     | 559 FL         | 1795 | ID | Randy  | 102  |        |
| 20CW                 | 2122 | WJ1R     | 559 FL         | 1795 | CO | Larry  | 2137 |        |
| 20CW                 | 2126 | NW7DX    | 559 FL         | 1795 | WA | Ben    | 1892 |        |
| 20CW                 | 2128 | W0HEP    | 559 FL         | 1795 | CO | Rich   | 1817 |        |
| 20CW                 | 2134 | KB1ENS   | 559 FL         | 1795 | VT | John   | 2150 |        |
| 20CW                 | 2136 | AF4PS    | 559 FL         | 1795 | FL | Mac    | 704  |        |
| 20CW                 | 2140 | W6BAB    | 559 FL         | 1795 | CA | Harvey | 5W   |        |
| 20CW                 | 2142 | W0JOE    | 559 FL         | 1795 | MO | Joe    | 1091 |        |
| 20CW                 | 2146 | KQ5U     | 559 FL         | 1795 | TX | Terry  | 1603 |        |
| 20CW                 | 2147 | N10DL    | 559 FL         | 1795 | NH | Aron   | 1326 |        |
| 20CW                 | 2150 | W4EN     | 559 FL         | 1795 | NJ | Ed     | 2216 |        |
| 20CW                 | 2153 | AE9F     | 559 FL         | 1795 | CA | Dan    | 5W   |        |
| 20CW                 | 2155 | AA7EQ    | 559 FL         | 1795 | AZ | Bob    | 2186 |        |
| 20CW                 | 2157 | N6WG     | 559 FL         | 1795 | CA | Bob    | 26   |        |
| 20CW                 | 2159 | N1FN     | 559 FL         | 1795 | CO | ET     | 1212 | QSY    |
| again...was not      |      |          |                |      |    |        |      |        |
| 20CW                 | xxxx | AJ4Y/fox | xxxxxxxxxxxxxx |      | FL | Paul   | 1795 | sure   |
| about the first qso. |      |          |                |      |    |        |      |        |

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Date: Wed, 6 Sep 2000 17:37:11 -0400  
 From: "Mike Yetsko" <myetsko@insydesw.com>  
 To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>  
 Subject: [78920] New Speaker  
 Message-ID: <003801c0184b\$456f26a0\$0600a8c0@dad>  
 MIME-Version: 1.0

Content-Type: text/plain;  
charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

I don't know about everybody else, but when I operate my K2, I don't find headphones comfortable. And the speaker, well, it's a TINY thing, and it's not that good.

Oh, it's great if you put something on top of the K2 to direct the sound forward, but still.

I was in RS today, looking for a speaker for my 242 in my Jeep. It's down under the dash, and quite out of the way. So I picked up that new 'communication speaker for \$15. Well, it's fantastic! It's a little black cube...

It's kind of 'harsh' sounding, is the only way to describe it. It goes GREAT on my VHF rigs, and while I haven't used it more than just a few minutes, I think I'm going to have to get one to replace the one in my Jeep, as that will be dedicated to the K2!

It's small, it's clear, and it's just plain NEAT.

Mike

-----  
Date: Wed, 6 Sep 2000 15:49:46 -0600 (MDT)  
From: "Karl F. Larsen" <k5di@zianet.com>  
To: Bob Kellogg <ae4ic@nr.infi.net>  
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>  
Subject: [78921] Re: AT-11 measured loss  
Message-ID: <Pine.LNX.4.10.10009061544100.1808-100000@cannac.ampr.org>  
MIME-Version: 1.0  
Content-Type: TEXT/PLAIN; charset=US-ASCII

Hi Bob, make what you wish of what I did. I'm a retired head of the US Army Research Laboratory, and I try hard to document every measurement I make. It is sure true that doing it with a 50 ohm load is not best, but at least YOU know what I did, exactly.

I have no patience with the many claims and un-supported measurements we see on QRP-L and other Ham books. Your claim that loss \*MIGHT BE\* as high as is worthless information because it's your guess. I'm not impressed.

On Wed, 6 Sep 2000, Bob Kellogg wrote:

> Karl,  
>  
> There are articles in April and May, 1995 QST written by Frank Witt,  
> AI1H, on evaluating tuners.  
>  
> Frank uses a resistive method, which he claims gives similar results  
> as complex loads. Frank, as you may know, has done extensive testing  
> and writing on the subjects of antennas, transmission lines and  
> baluns. I've never heard any knowledgeable individuals question his  
> work, so until someone can prove otherwise, I'm going to assume he's  
> right. :-)  
>  
> Of course, that shouldn't keep us from experimenting!!  
>  
> "Karl F. Larsen" wrote:  
> >  
> > Tell me how to do a measurement with a complex load and I will do it  
> > ....:-)  
>  
> --  
> 73,  
> Bob Kellogg, AE4IC, Greensboro, NC  
> Prolobly, not nececelery. - Benny Hill  
>  
>

Yours Truly,

- Karl F. Larsen, k5di@arrl.net (505) 524-3303 -

-----  
Date: Wed, 6 Sep 2000 15:54:16 -0600 (MDT)  
From: "Karl F. Larsen" <k5di@zianet.com>  
To: QRP-L List <qrp-l@lehigh.edu>  
Subject: [78922] PSK31  
Message-ID: <Pine.LNX.4.10.10009061552030.1808-100000@cannac.ampr.org>  
MIME-Version: 1.0  
Content-Type: TEXT/PLAIN; charset=US-ASCII

I just worked EA8EH on 15 meters using 5 watts and PSK31. The band is not good but Antonnio and I had a nice chat, half spanish, half american english.

Adios

Yours Truly,

- Karl F. Larsen, k5di@arrl.net (505) 524-3303 -

-----  
Date: Wed, 6 Sep 2000 17:59:09 -0400  
From: Howard Friedman <haf47@juno.com>  
To: qrp-l@lehigh.edu  
Subject: [78923] Nu Morse Lite  
Message-ID: <20000906.175913.-3523657.0.haf47@juno.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

Hello and thanks for reading this request.

I am looking to get a copy of "Nu Morse Lite" the freeware version of this very fine morse trainer.

If you have this, I would appreciate if you would send me a copy.

Please send an email before you send the file, so I may respond, and not have a bunch of kind folks send me this file, load up my mailbox, and waste their time.

Thanks in advance, and please send email direct.

73, Howard WA2AFD  
haf47@juno.com

-----  
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<http://dl.www.juno.com/get/tagj>.

-----  
Date: Wed, 6 Sep 2000 22:44:25 +0100  
From: "Ted Williams" <ted.williams@btinternet.com>  
To: "QRP-L" <qrp-l@lehigh.edu>  
Subject: [78924] Re: Determining Tree Height  
Message-ID: <014501c0184d\$85cc96e0\$ae4f063e@tedspc>  
MIME-Version: 1.0  
Content-Type: text/plain;

charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

Surely the Ham method of measuring tree height would be to hang a wire from the top and find the frequency at which it resonates at, say, a quarter wavelength.

Simple;-))

Ted, G0ULL

-----  
Date: Wed, 6 Sep 2000 18:22:07 -0000  
From: "Winston F. Jones" <winjones@ix.netcom.com>  
To: <70511.3041@compuserve.com>, "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>  
Subject: [78925] Re: [re]Value of Ten-Tec AC-5 Tuner  
Message-ID: <00c801c0182f\$5e423260\$784f56d1@winstonj>  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

I bought the AC-4 SWR meter a couple of years ago for \$40 and hated myself for paying that much. I'd say the AC-5 tuner brings about the same. As I recall, its original new selling price was about \$10.  
73, Winston K4CWQ

----- Original Message -----  
From: Wilford D. Lindsey <70511.3041@compuserve.com>  
To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>  
Sent: Wednesday, September 06, 2000 03:01 AM  
Subject: [re]Value of Ten-Tec AC-5 Tuner

> Gang:  
>  
> Several wrote back almost immediately with the estimated value. Thanks  
one  
> and all. Wow, what a great list :-).  
>  
> 72/73,  
> --W.D. (Doc) Lindsey  
> DSBF  
> PO Box 6028  
> Bismarck, ND 58506

> (Shipping = DSBF, 2020 Lovett Ave, Bismarck, ND, 58504)  
> E-Mail = K0EVZ@arrl.net

-----  
Date: Wed, 6 Sep 2000 17:58:57 EDT  
From: Rick McKee <kc8aon@juno.com>  
To: qrp-l@Lehigh.EDU  
Subject: [78926] Re: Stupid question...  
Message-ID: <20000906.183715.4303.1.kc8aon@juno.com>

The only stupid question is the one you never ask ! But before you plug power into any rig, check to see what the specs are for the rig in question ! Remember, when all else fails - read the instructions !

73...Rick McKee KC8AON { CW lives as long as I do ! }  
Willow Wood, Ohio "oo's"  
AR QRP # 269 QRP-L # 2112 ZOMBIE # 718 FPqrp # 33  
TriState BrassPounders # 1

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End of QRP-L Digest 1936  
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